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U.S. Department of Agriculture • Foreign Agricultural Service • Washington, D.C.

foreign agriculture circular

citrus fruits

Approved by the World Food and Agricultural Outlook and Situation Board • USDA

FCF 3-79 November 1979

MEXICO TO EXPAND PRODUCTION AND EXPORTS OF CITRUS FRUIT

Summary

Mexico's total citrus output was unusually low during the 1977/1978 and 1978/79 seasons because of adverse weather. Nevertheless, exports of fresh oranges and tangerines to the United States (the leading market) rose sharply in 1978/79 compared with year-earlier totals, mainly because of increased demand. At the same time, high prices of oranges and tangerines, coupled with a strong U.S. demand for orange juice concentrate, have resulted in an increase in plantings of these fruits and are encouraging Mexican processors to modernize and expand their facilities. Meanwhile, the boom in grapefruit plantings appears to be winding down because of low prices in both the domestic and foreign markets, as well as fear of a worldwide glut.

Production

Mexican citrus production has trended downward in recent years because of a drought in 1977 and a severe freeze in December 1978. The drought affected all of Mexico's producing regions but was most intense in the States of Nuevo Leon, Tamaulipas, and San Luis Potosi. The freeze was primarily concentrated in the Montemorelos-Linares citrus producing area in Nuevo Leon, and caused output in this area to fall by a third from the 1977/1978 level. The three states mentioned above plus the southern states of Veracruz and Tabasco account for the bulk of Mexico's orange, tangerine, and grapefruit production. Lime groves are concentrated in the Pacific coast states of Colima and Michoacan.

The most recent official Mexican Government production data are for 1977—total citrus output at 2.48 million metric tons, including 1,863,029 tons of

oranges, 58,188 tons of tangerines, 112,086 tons of grapefruit, and 444,642 tons of limes. Trade sources place tangerine production at 125,000-190,000 tons.

Oranges and tangerine output was hard hit by the 1977 drought and a December 1978 freeze, but production is expected to rebound sharply in the 1979/80 season. By the mid-1980's orange and tangerine output could approach 2,700,000 and 175,000 tons, respectively, because of new trees entering the bearing stage and with improved cultural practices. New plantings—mainly Valencia oranges and Dancy tangerines—were heavy in the 1977/78 and 1978/79 seasons and occurred primarily in Mexico's southern zones, stretching along and near the Gulf Coast from the southern tip of Tamaulipas to Campeche. Apparently, there is little room for expansion in the traditional citrus areas in Nuevo Leon.

Grapefruit and lime trees were least affected by the adverse weather of the late 1970's because of their locations. About three-fourths of the grapefruit trees are in Veracruz and Tabasco.

The rate of new grapefruit plantings has been high since the early 1970's and production is expected to increase 50 percent from the 1977 level to about 170,000-175,000 tons by 1985. However, industry sources have indicated that new tree plantings will slow down substantially during the current season because of low prices, anticipation of a worldwide glut, and a lack of demand in the domestic market. During the first 7 months of calendar 1979, the U.S. import price (f.o.b. Texas) averaged \$234 per ton,

compared with \$342 during the same period a year earlier and \$309 during the first 7 months of 1977.

Mexico is a relatively small producer of grapefruit, accounting for less than 2 percent of world output. The industry, however, is fearful an oversupply will develop when all of the trees in Florida and Texas are full bearing. Adding to Mexico's concern is the huge expansion of grapefruit plantings in Cuba. It is estimated that Cuba's grapefruit area will approach Florida's by 1985. While the United States banned all imports from Cuba in 1962, Mexico is fearful that, it may lose a share of the U.S. market if this ban should be lifted.

Lime production has stabilized over the past few years. About 95 percent of all limes are the Key variety and are mainly consumed domestically or processed for lime oil. The remaining 5 percent are primarily Persion (Tahiti) limes, a large proportion of which are exported to the United States.

Fresh Export Market

All fresh citrus fruit destined for the export market passes through packinghouses, most of which have fumigation facilities approved by the U.S. Department of Agriculture. There are 31 packinghouses in Mexico that handle fruit for the export market; 26 are located in the Montemorelos-Linares zone of Nuevo Leon. The latter 26 packinghouses are members of the Mexican Association of Citrus Packers, established in 1964 for the purpose of promoting citrus production and improving quality and marketing opportunities for its members. The Association is making progress in coordinating the marketing activities of each of the member packinghouses so as to control supply. Each packinghouse, however, sells its fruit under different trademarks.

The fresh export market takes 1-3 percent of orange production, 20-25 percent of the tangerine output, 10-15 percent of the grapefruit crop, and about 1 percent of total lime production.

About 60 percent of Mexico's orange exports go to the United States, and all of its tangerine shipments go to the United States and Canada. Tangerines are more or less limited to these countries because they are susceptible to decay and to peel injury brought on by excessive handling.

Despite the freeze in December 1978, which further set back production of oranges and tangerines, exports of these fruits to the United States are up substantially from the 1977/78 level. U.S. imports from Mexico during November 1978-August 1979 totaled 39,538 tons (52 percent tangerines and 48 percent oranges). This represents a 62 percent jump over imports in the same period in 1977/78. The short 1978/79 orange crop in California and Arizona is the major reason for the increase. Mexican shipments to

the United States, expecially or oranges, fluctuate considerably from one year to another. Such changes are mainly caused by sudden fluctuations in the level of U.S. demand and less frequently to changes in Mexican supply, when frosts or droughts hit the main growing areas.

Most of the remaining orange exports go to the German Democratic Republic (GDR). Official Mexican trade data (1977) show orange exports to the United States and the GDR evenly split at about 17,000 tons each. Small shipments also go to the Netherlands (about 383 tons in 1977). Trade sources believe that with the anticipated increase in production, orange and tangerine exports will increase about 25 percent above current levels by the mid 1980's. These same sources said that they will ship as much fruit as economically possible to the United States and Canada, and also that they are interested in increasing orange exports to Western Europe.

Exports of fresh grapefruit have doubled in the past few years, with the major markets being the United States, Western Europe (primarily the Netherlands and France) and most recently, Japan. Japanese imports from Mexico rose from 90 tons in 1971 to 3,188 tons in 1978, exceeding the calendar 1978 U.S. import level of 1,257 tons. Mexican grapefruit shippers compete directly with U.S. growers for the U.S. market, as well as other foreign markets. They have the advantage of being able to get their fruit to these markets 2 to 3 weeks before the U.S. shipping season gets underway because of the early harvest in Veracruz.

In light of anticipated larger supplies, Mexican exporters hope to maintain the U.S. and West European markets at least at present levels, and are confident they can get more fruit into Japan during the early part of the marketing year.

The Persian lime, being larger and sweeter than the Key lime, is popular for fresh consumption in the United States as well as other parts of the world. The United States takes most of Mexico's export sales. Small shipments also to Japan and Western Europe.

U.S. imports of Mexican limes have trended upward in recent years, going from 3,081 tons in 1974 to a record 12,334 tons in 1978. The increase is attributed to greater supplies of the Persian variety in Mexico, coupled with a decline in U.S. output, which has fallen from about 40,000 tons in 1974/75 (April-March) to 19,000 tons in 1978/79. The 1977 freeze in Florida is the main reason for the drop in production. U.S. imports from Mexico continued at a high level during the first 8 months of calendar 1979 (8,020 tons compared with 7,093 during the same period in 1978). However, they are not expected to reach the 1978 total because of an anticipated rebound in U.S. output during the 1979/80 season.

Processing Industry

Mexico's citrus processing industry is comprised of three basic sectors: Orange juice, sectioning, and lime processing.

The orange juice industry: With anticipation of continued strong demand for orange juice and increased in orange production, the juice processing industry is expanding and modernizing its facilities. Of the nine plants that produce orange juice, six produce concentrates. Combined, they have the capacity to remove 131,000 pounds of water vapor per hour and have a total of 60 extractors (table 8). There are plans to build six more plants by 1981/82, which if realized—would double Mexico's overall processing capacity. Three of the plants will be located in Veracruz, and one each in Nuevo Leon, Tamaulipas, and Yucatan.

One of the largest plants, located in Montemorelos, has recently installed eight 100,000-gallon cold storage tanks to reduce handling costs, obtain consistent blends, and facilitate the transfer of juice in bulk. Similar tanks have been in existence in Florida for 5 years, but never before in Mexico. Mexican processors realize that in order to compete with the United States and Brazil (the world's leading exporter of orange juice) they must produce a good-quality product and be cost efficient.

By the middle of the 1979/80 season, this plant will begin to ship a portion of its output to the United States in bulk rather than in the conventional 55-gallon drums. The frozen slush juice will be transported from the plant by truck in stainless steel containers holding 20-25 tons at temperatures well below freezing. Officials indicate that most of the savings in this transportation system will be from lower fuel costs and eliminating the cost of purchasing and handling drums. Each drum costs about \$20-\$25. This bulk system of transporting juice is commonly practiced by processors in Florida, who ship their juice to northern dairies for packaging.

About 70 percent of Mexico's orange juice production is exported. The United States is the leading market, taking about one-half of Mexico's exports. Canada, Sweden, the Bahamas, and West Germany are other important buyers.

U.S. demand for imported orange juice has been particularly high in the past several years because of high prices for domestic juice generated by the Florida freeze of January 1977. This demand prompted Mexico to step up shipments of juice to the United States in 1977 and 1978. However, because of limited processing capacity, the industry was not able to take full advantage of the high demand. While U.S. imports of orange juice soared from 31.4 million gallons (single-strength equivalent) in calendar 1976 to 150.7 million gallons in 1978, almost all of the increase came from

Brazil, which has the capacity to produce 10-12 times more juice than Mexico. In 1978, U.S. imports from Mexico and Brazil totaled 9.9 million and 139.5 million gallons, respectively, and during the first 8 months of 1979, U.S. imports from these countries amounted to 5 million and 101 million gallons, respectively.

The Mexican processors are, however, optimistic that U.S. demand for concentrate will continue to be strong during the next several years. Despite occasional fluctuations, they foresee no problem in selling their future output to the United States. They believe the trend toward increased U.S. consumption of orange juice, coupled with population growth, will help maintain sales even when U.S. production is at normal levels.

The Mexican industry is also attempting to expand the domestic market. Most orange juices on the local market are classified as orange drinks and are not 100 percent natural juices. The drinks are less expensive and more affordable to the populace than natural juice. However, the share of natural juices has been on the increase in the past several years. One-liter and half-liter packages of reconstituted, single-strength juice are fairly common throughout Mexico. Moreover, a 1-liter plastic container of frozen concentrate was recently introduced on the retail market. Trade sources indicate that the industry may soon start marketing half- and quarter-liter tetrapacks of concentrates in Mexico City.

The sectioning industry: There are four plants in Mexico that section citrus (oranges, tangerines, and grapefruit) and other fruits; two of the plants are located in Linares and one each is situated in Nuevo Laredo (near the Texas border) and in Montemorelos. Virtually all of the output is exported—about 90 percent to the United States and most of the remainder to Canada. The fruit is all sectioned by hand and packaged in 1-gallon jars and 30-and 45-pound plastic pails. After being packaged, the containers are put into a freezing tunnel for approximately 2 hours at temperatures of 26°-28°F to insure against fermentation. The product is then kept in cold storage until ready to be transported under refrigeration to market.

In calendar 1978, the United States bought 4,531 tons of prepared and/or preserved oranges and grapefruit from Mexico, valued at \$2.2 million, and 4,036 tons of prepared fruit mixtures, worth \$2.3 million. Fruit mixtures include several fruits such as apples, bananas, melons, and pineapples in addition to citrus.

Reportedly, the industry operated at close to capacity in the 1978/79 season because of strong U.S. demand for sectioned fruit. Industry sources are optimistic about the future, and a new plant is expected to be built in General Tehran in Nuevo

Leon by the 1980/81 season.

The industry's optimism stems from the fact that Florida's output of sectioned fruit (both canned and chilled) has been declining in recent years. Florida accounts for about 90 percent of total U.S. production. Output of sectioned grapefruit, oranges, and fruit salad in Florida has dropped slightly over 50 percent since the mid 1960's and totaled about 17,050 tons in 1978/79 (5,950 tons grapefruit; 2,400 tons oranges; and 8,700 tons fruit salad).

The U.S. industry is handicapped in competing with the Mexican imports in terms of both quality and costs of production. High labor costs in the United States forced most of the processors to replace much of their labor force with machinery, and consequently only 15 percent of Florida's output is currently sectioned by hand. The quality of machine-cut sections is said to be inferior to those cut by hand. The Mexican industry is labor-intensive, but the abundance of inexpensive labor should enable it to continue hand sectioning for some time and effectively compete with U.S. process.

Lime processing industry: The lime processing industry is based primarily on the production of essential oils, and to a lesser extent on natural and concentrated juices. About one-fourth of Mexico's total lime output is processed. The processing season coincides with the harvesting of limes and is heaviest during April-October.

Essential oils are extracted from the rind of the lime and are used extensively as a flavoring in food products, confectionery items, and beverages. The oils are also used in perfumes, cosmetics, and soaps. Lime oil is costly to manufacture, as only about 4

kilograms of oil can be extracted from 1 ton of fresh limes.

Mexico leads the world in the production of lime oil and commands nearly 60 percent of the world export market. Roughly three-fourths of Mexico's output is exported, primarily to the United States and the United Kingdom. The United States is the world's leading consumer of lime oil and is dependent on Mexico to supply most of its needs. Mexico accounts for about two-thirds of U.S. imports of lime oil, with Haiti, Jamaica, Brazil, and Spain supplying most of the remainder.

Most of Mexico's lime juice exports are in concentrated form. Two-thirds go to the United Kingdom and about one-third to the United States. The United States imported 390,000 gallons (single-strength equivalent) of Mexican concentrated lime juice in calendar 1978.

Because production of limes has stabilized in Mexico, no significant expansion in exports of lime products is anticipated in the near future. All indications are that the United States and the United Kingdom will continue to be the leading markets for lime oil and juices.

This circular, based on original research and information gathered in the field, was prepared by John H. Wilson, formerly with the Horticultural and Tropical Products Division, Commodity Programs, FAS/USDA, Washington, D.C. 20250, and now assigned to the International Trade Policy Division, FAS. Further information relating to the circular may be obtained by writing the Division or telephoning (202)447-3470.

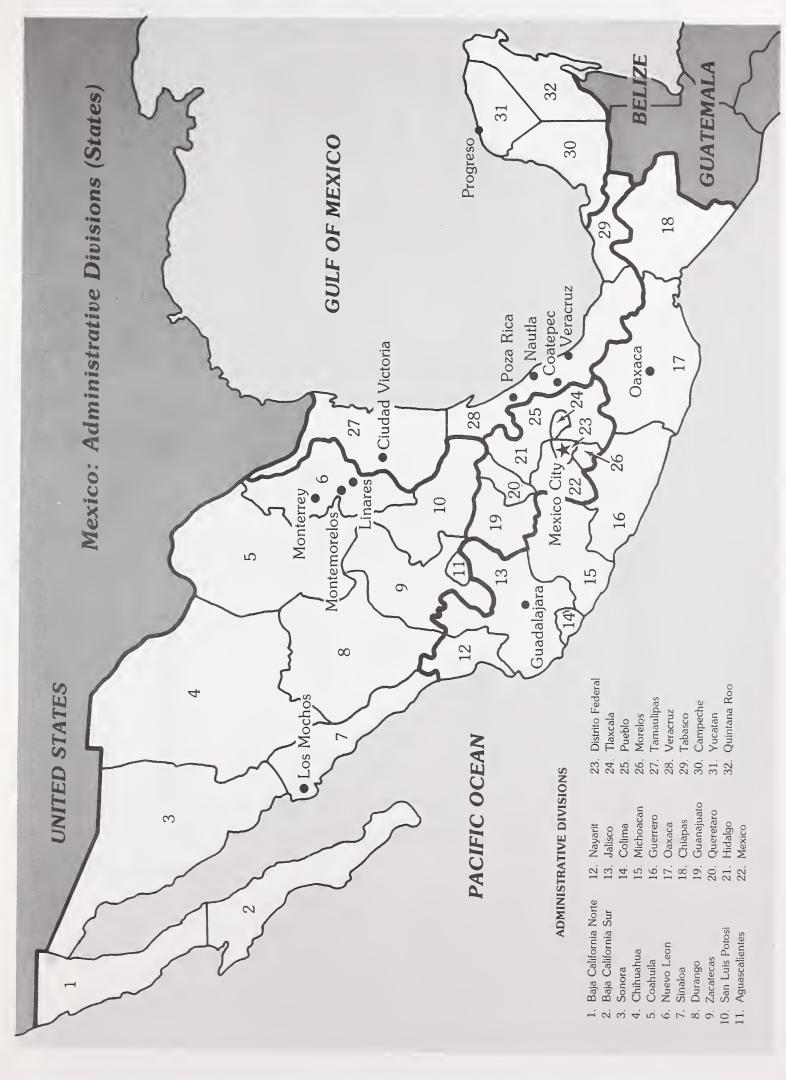


Table 1-U.S. Imports of Fresh Citrus and Citrus Products from Mexico, 1974-79

T4	T.T.=:4		C	Calendar yea	аг		T . A
Item	Unit	1974	1975	1976	1977	19781	Jan-Aug. 1979
Oranges	metric tons					11,435	1,883
Tangerines	metric tons					25,305	15,040
Oranges and Tangerines	metric tons	36,897	22,243	23,172	35,709	36,741	16,923
Grapefruit	metric tons	2,804	2,204	4,133	4,307	1,257	209
Limes	metric tons	3,081	3,843	4,514	7,873	12,334	8,029
Concentrated orange juice	1,000 gallons	5,160	3,315	1,473	13,790	9,860	5,377
	(single-strength equivalent)						,
Lime juice, not concentrated	1,000 gallons	83	34	24	99	42	9
,	(single-strength equivalent)						
Lime juice, concentrated	1,000 gallons	63	761	188	481	390	81
•	(single-strength equivalent)						
Prepared or preserved oranges	metric tons					2,193	1,337
Prepared or preserved grapefruit.	metric tons					2,338	1,861
Prepared fruit mixtures	metric tons	150	114	148	1,617	4,036	2,598
Lime oil	metric tons	342	282	235	429	473	295

¹U.S. imports of total citrus and citrus products from Mexico were valued at \$35 million in CY 1978 of which \$11.4 million was for fresh citrus, \$9.7 million for citrus juice, \$4.5 million for canned and preserved products and the remainder for lime oil.

Source: U.S. Bureau of Census.

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Table 2—Fresh Oranges: Exports from Mexico, 1963-77 (Metric tons)

				Country of c	lestination				
Үеаг	Argentina	Canada	German Dem. Rep.	Fed. Rep. of Germany	Nether- lands	Poland	United States	Other	Total
1963					149		42,118		42,267
1964				461			58,959		59,420
1965		147		1,932	243	46,100	30,671		79,093
1966		65		6,930	967		17,671		25,633
1967		104		4,402	935		24,340		29,781
968	486	365		4,250			56,959		62,060
1969		1,142	9,868				21,588		32,598
970	475	143	4,457		16		21,636		26,727
1971	285	600	14,992				27,055	1	42,933
1972	704	1,212	15,980				30,134	45	48,075
1973	5,785-	1,514	16,743				24,148	248	48,438
1974	2,780	510	18,464		180		16,828	4	38,766
1975	1,569		4,002		53		5,203	1	10,828
1976		107	7,393		301		4,866		12,667
1977		52	17,220		376		17,407	2	35,057

⁻⁻⁻ Denotes not available, unknown, or not applicable.

Source: Anuario Estadistico del Comercio Exterior de los Estados Unidos Mexicanos.

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⁻⁻⁻ Denotes not available, unknown, or not applicable.

Table 3-Tangerines, Fresh: Exports from Mexico, 1963-77 (Metric tons)

Vaca		Country	of destination	
Year	Canada	Other	United States	Total
1963	0	0	4,498	4,498
1964	20	0	11,805	11,825
1965	345	0	7,756	8,101
1966	392	0	5,597	5,989
1967	488	0	15,163	15,651
1968				
1969	1,66	0	18,091	19,759
1970	2,141	31	21,313	23,485
1971	440	0	11,057	11,497
1972	635	0	27,358	27,993
1973	20	2	27,476	27,498
1974	88	0	25,258	25,346
1975	0	25	19,238	19,263
1976	124	19	25,989	26,132
1977			20,327	28,405

⁻⁻⁻ Denotes not available, unknown, or not applicable.

Source: Anuario Estadistico del Comercio Exterior de los Estados Unidos Mexicanos.

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Table 4—Lime, Fresh: Exports from Mexico, 1963-77 (Metric tons)

Year -	Country	of destination	n
i eai	United States	Other	Total
1963	2,214	0	2,214
1964	1,819	0	1,819
1965	1,024	41	1,065
1966	674	0	674
1967	368	0	368
1968	370	0	370
1969	227	28	255
1970	848	0	848
1971	878	4	882
1972	1,215	59	1,274
1973	1,752	140 ¹	1,892
1974	3,036	15	3,051
1975	3,498	38	3,536
1976	4,196	13	4,209
1977	5,530	11	5,541

¹Includes 33 tons to Belgium-Luxembourg and 87 tons to Japan. --- Denotes not available, unknown, or not applicable.

Commodity Programs, FAS, USDA

Table 5—Grapefruit, Fresh: Exports From Mexico, 1963-77 (Metric tons)

				Cou	ntry of destinat	ion				
Year	Argentina	Belgium- Luxembourg	Canada	France	Fed. Rep. of Germany	Japan	Nether- lands	United States	Other	Total
1963								677		677
1964								1,546		1,546
1965			24					89		113
1966			21					72		93
1967			5					47		52
1968	117		78					789		984
1969			57					1,234		1,291
1970	414		145					1,712		2,271
1971						87		2,692		2,779
1972	306		22					5,197		5,525
1973	946		43		95			4,617		5,701
1974	3,519			367	197		257	3,807	146 ¹	8,293
1975	775	96		154		121	545	3,301	38^{2}	5,030
1976		153	386	513	76	373	2,056	7,144	82 ³	10,783
1977	300			1,090		90	4,126	6,003	25 ⁴	11,634

¹Includes 122 tons to German Democratic Republic. ²All to the United Kingdom. ³All to Bermuda. ⁴All to Sweden.

Source: Anuario Estadistico del Comercio Exterior de los Estados Unidos Mexicanos.

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Source: Anuario Estadistico Comercio Exterior de los Estados Unidos Mexicanos.

⁻⁻⁻ Denotes not available, unknown, or not applicable.

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Table 6—Orange Juice: Exports From Mexico, 1963-77 (Metric tons)

			· · · · · · · · · · · · · · · · · · ·	Coun	try of desti	ination				
Year	Australia	Bahamas	Canada	Fed. Rep. of Germany	Nether- lands	Sweden	Switzer- land	United States	Other	Total
1963			598					2,021		2,619
1964			58				15	4,232		4,305
1965			76				18	680	1	775
1966			281		22	5	75	82		465
1967				6		11	125	35		177
1968						6	41	750		797
1969				2		31	13	236		282
1970				688		3	115		2	808
1971		172	566	18	34	27		967	23	1,807
1972		57	1,499	217		320		4,548	1	6,642
1973		3,021	1,403	11		514		5,390	38	10,377
1974	938	904	1,226		322	873		6,779		11,042
1975	1,392		1,020			383		507	239^{1}	3,541
1976	2,621	501	1,489	116		1,500		1,721	513^{2}	8,461
1977	761	2,058	5,797	635		4,432		7,450	$2,811^3$	23,944

¹Includes 142 tons to Austria. ²Includes 513 tons to United Kingdom. ³Includes 2,415 tons to the United Kingdom and 270 tons to Finland. --- Denotes not available, unknown, or not applicable.

Source: Anuario Estadistico del Comercio Exterior de los Estados Unidos Mexicanos.

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Commodity Programs, FAS, USDA

Table 7—Citrus, Fresh: Exports from the United States to Mexico (Metric tons)

Season ¹	Oranges	Tangerines	Grapefruit	Lemon
1970/71	172		54	1,951
1971/72	66	58	303	814
1972/73	71	28	95	160
1973/74	46	23	41	615
1974/75	287	23	105	658
1975/76	831	8	174	1,061
1976/77	579	10	220	638
1977/78	275	1	148	668
1978/79 ²	114	18	45	530

¹Season for oranges and tangerines is November-October, grape-fruit September-August, lemons August-July.

Table 8-Number of Extractors and Evaporation Capacity Per Orange Juice Processing Plant in Mexico, 1978/79

Location of plant	Extractors	Evaporation capacity ¹
Montemorelos, Nuevo Leon	15	40,000
Montemorelos, Nuevo Leon	7	15,000
Monterrey, Nuevo Leon	6	12,500
Coatepec, Veracruz	8	10,000
Nautla, Veracruz	14	31,000
Poza Rica, Veracruz	6	22,500
Los Robles, Veracruz	2	0
Los Mochis, Sinaloa	1	0
Oaxaca, Oaxaca	1	0
Total	60	131,000

¹Pounds of water removed per hour. Source: Trade and industry contacts.

November 1979

²Through August.

⁻⁻⁻ Denotes not available, unknown, or not applicable. Source: U.S. Bureau of Census.

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fresh and processed citrus fruits

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FCF 2-79 July 1979

SOUTHERN HEMISPHERE CITRUS PRODUCTION DOWN IN 1979/80

Citrus production in leading Southern Hemisphere producing countries for the 1979/80 season is forecast at 10.3 million tons, down 9 percent from last year's record crop. The decrease is attributed to a smaller orange crop in Brazil caused by dry weather during the principal blossoming period in August and September and lower tree vigor following last season's bumper crop.

South Africa and Brazil continue to be important Southern Hemisphere citrus exporters. South Africa, the world's leading exporter of fresh oranges during the Northern Hemisphere summer period, shipped a record 371,526 tons in 1978 and is expected to export only slightly less this season. Brazil, a small exporter of fresh citrus, but the world's largest exporter of frozen concentrated orange juice (FCOJ), shipped a record 355,629 tons (65° Brix) in 1978, up 57 percent from the previous year's. The United States emerged as Brazil's leading market in 1978, taking 44 percent of the shipments. Brazilian exports of FCOJ should be down about 20 percent in 1979 because this year's smaller crop is expected to reduce the quantity of oranges available for processing.

The Southern Hemisphere accounts for approximately one-fourth of total annual world citrus production. Nearly all Southern Hemisphere production is between April and January. This circular summarizes the citrus situations in Argentina, Australia, Brazil, Chile, and South Africa. All tons are metric, and equivalent to approximately 2,204.6 pounds.

Argentina

Production

Citrus production for the 1979/80 season is pegged at 1.33 million tons, down slightly from last year's crop because of frost damage in late August 1978 in the Provinces of Jujuy and Salta. The orange crop is 4 percent ahead of last year's outturn of 670,000 tons; however, this increase is not large enough to offset declines in tangerine, lemon, and grapefruit production.

Marketing

Most of Argentina's citrus is consumed domestically, yet exports of fresh citrus rose slightly in calendar 1978 to 71,156 tons. Lemon shipments reached a record 24,535 tons, because of strong demand from Hungary and the German Democratic Republic.

Grapefruit exports continued to trend upward, reaching 19,000 tons in 1978; however, orange shipments fell 12 percent to 26,928 tons, reflecting a reduction in shipments to West Germany.

Processor use of citrus remains static. About 20 percent of total fresh citrus production is processed into juice concentrates. Processing capacity is estimated at 600,000 tons; however, the industry is currently operating at only 40 percent of capacity, reportedly because of high processing costs. No official export data is available for citrus products, yet it is estimated that about half of the total citrus juice production is exported (mainly as frozen concentrates).

Australia

Production

A record citrus crop of 465,000 tons in forecast for the 1979/80 season. Production of navel oranges is expected to fall slightly from last year's level to 128,000 tons, yet valencia output is projected at a record high of 235,000 tons. The larger valencia crop is due to new orange trees coming into bearing in the States of South Australia and Victoria. Production of tangerines if placed at 27,000 tons, slightly lower than the 1978/79 crop because of smaller yields in the southern states. Production of lemons is expected to rise above last season's record of 42,000 tons, with most of the gains occurring in the south Australian districts. The grapefruit crop will also be larger as new plantings in the Riverland and Sunraysia districts come into bearing.

Production is expected to trend upward over the next few years especially of valencia oranges. A census taken during the 1977/78 season revealed that 20 percent of the valencia plantings are expected to continue to trend upward; however, the rate of increase is highly contingent on the profitability of the orange juice industry (about two-thirds of the valencia outturn is processed) and the effectiveness of the high protection recently obtained against orange juice imports.

Bearing lemon and grapefruit tree numbers are expected to reach plateaus over the next couple of years at levels slightly to moderately above present levels. The number of navel and tangerine trees on the other hand have already peaked because domestic and foreign demand for these fruits has stabilized and demand from the processing sector is limited.

Marketing

The domestic market now absorbs about 95 percent of Australian citrus production. The recent growth in citrus consumption is largely confined to increases in the consumption of citrus juices. The swing to juice is attributed to higher consumer incomes and a switch in consumer preference from fresh to processed products. Processor intake during the 1978/79 season is pegged at 239,000 tons (146,000 tons of valencias, 51,000 tons of navels, 28,000 tons of lemons, 13,000 tons of grapefruit, and 1,000 tons of tangerines).

The outlook for the 1979/80 season if for a further increase in processor utilization, partly because of the larger crops in prospect but mainly because of higher protection against imported juices. A temporary ad valorem duty of 65 percent, applied to imported orange concentrate since 1977, was replaced by a new tariff structure in April 1979. This provides for a variable duty representing the difference between the value of the duty of the total soluble solids content contained in the juice per kilogram, and \$A2.40 (\$A1 equals US\$1.05). At present prices this represents an ad valorem duty of about 63 percent. The duty has been effective in curbing imports, but has resulted in higher prices of domestic juices and a switch in consumer preference to lower priced juices at the expense of pure natural juice.

Fresh exports of citrus account for only 6 percent of production. New Zealand and Singapore are the chief markets for oranges, taking 9,600 and 4,000 tons, respectively, last season. Tangerine shipments, totaling 5,300 tons in 1978/79, go mainly to Canada, West Germany, and Sweden. Lemon and grapefruit exports are relatively insignificant, 600 and 60 tons, respectively last season. Major markets for lemons are Canada and Singapore and Western Europe for grapefruit. Fresh citrus exports this season are expected to remain near the level of the 1978/79 season.

Brazil

Production

Brazil is the No. 1 producer of oranges in the Southern Hemisphere and the second largest producer in the world, next to the United States. The country's orange crop is forecast at 6.9 million tons, down 12 percent from last year's record crop of 7.9 million tons. Last season's output was much larger than anticipated and would have been even larger if field losses had not been so high. The losses were due to lack of processor interest in early Hamlin oranges and to the overwhelming size of the crop, which exceeded processing capacity during the peak harvest period. This season's orange crop is down because of very dry weather during the principal blossoming period in August and September, coupled with lower productive capacity of the trees following last year's very large crop. Production of lemons, limes, and tangerines is expected to equal about 10 percent of total citrus production.

The State of Sao Paulo, the principal citrus producing State and center of the processing industry, accounts for about three-fourths of Brazil's orange crop and encompasses approximately 338,000 hectares of oranges. During the 1979/80 season, Sao Paulo groves are expected to yield 1.73 boxes (90 pounds each) of oranges per tree, with an estimated 68.8 million trees in bearing (22.8 million trees are not yet bearing).

Sao Paulo's orange production outlook is for continued gains over the next few years. In view of the investments being made in the expansion and establishment of new processing plants for frozen concentrated orange juice, most observers expect output in the State to reach 8.2 million tons by the late 1980's.

The Sao Paulo commercial citrus zone is free of citrus canker, but the disease exists in some areas of the State, as well as in the neighboring States of Parana and Mato Grosso. The Federal Government's campaign to eradicate citrus canker is funded in part by a 1.4 cent surcharge on every box of oranges sold for processing, with processors and growers bearing 71 and 29 percent, respectively, of the cost.

Marketing

Almost all of the orange production outside of Sao Paulo State is consumed in the fresh form. Processors are expected to utilize 3.88 million tons of Sao Paulo's orange production in 1979/80, a decrease of 19 percent from last

season's because of the poorer crop. An estimated 61,000 tons of the State's fresh orange production is expected to be exported and the remaining 1.16 million tons will be consumed fresh in local markets.

The Sao Paulo citrus processing industry is almost entirely devoted to the manufacture of frozen concentrated orange juice and is currently going through a period of rapid expansion. There are 11 factories operating in the State and another factory, to contain 96 extractors, is currently under construction in Colina, and will begin operation with 48 extractors this September. Other Brazilian companies plan to build new plants in the near future. By December 1979, processing facilities in the State of Sao Paulo will have a total of 469 extractors and by May 1980, a total of 517 is expected.

Production of FCOJ in Sao Paulo State is forecast at 323,000 tons (65° Brix), down 19 percent from last year's. Likewise, production of dried citrus pulp is expected to drop slightly to 399,000 tons, About 95 percent of FCOJ production and all but a few thousand tons of the pulp are exported. The industrial yield of FCOJ is expected to remain at last season's level of 3.4 kilograms per box (90 pounds each).

Export prices of FCOJ during calendar year 1978 averaged US\$991 per ton, f.o.b. Santos, and averaged about \$972 during January and February of 1979. In comparison, the average export price was \$829 per ton in calendar 1977, \$481 in 1976, and \$454 in 1975. In calendar 1978, the United States became the largest market for Brazilian FCOJ, accounting for 44 percent of Brazil's exports, compared with 22 percent in 1977 and 8 percent in 1976. The increase in shipments to the United States was due to the short U.S. orange crop and high prices for domestic FCOJ. Exports to Canada increased, while shipments to Western Europe fell for the third consecutive year as a result of larger shipments to the United States and Canada.

The Government of Brazil offers a series of incentives to exporters of FCOJ but the most important of these is gradually being phased out. Until January 1979 exporters received a tax credit equal to 20 percent of the f.o.b. value of export sales, which was then reduced to 18 percent and in April 1979 to 17 percent. The tax credit will drop 1 percent per calendar quarter until completely eliminated in 1983.

Another export incentive for FCOJ is the subsidized financing of production for export (Central Bank Resolution 515 of February 2, 1979), which permits processors to borrow an amount equal to 30 percent of the value of their exports in the previous year. The average repayment period is 276 days. After 6 months, processors can obtain an additional loan equal to 20 percent of any increase in the export value during the past 6 months compared with the corresponding period of the previous year. The interest rate of Resolution 515 financing is 8 percent per annum, discounted at the time of the loan. Under the terms of the Ministry of Finance's Directive No. GB-203 of June 2, 1971, firms are not subject to income tax on earnings from export sales of FCOJ. Presently corporate

income is taxed at 30 percent. In addition, oranges for processing are not subject to the States' value-added tax (ICM), which varies from 11 to 14 percent.

Chile

Production

Orange and lemon production in Chile is continuing an upward trend and is expected to reach 47,500 and 71,000 tons, respectively, this season. Lemon output has risen 56 percent since the 1976/77 season because of additional bearing area and excellent weather conditions. However, no new plantings of lemons are anticipated in the new future because of a sharp drop in domestic lemon prices in 1978 following last year's bumper crop. Orange plantings have remained fairly static in recent years, and no significant increase is anticipated.

Marketing

Domestic consumption of citrus fruit in 1978 rose 5 percent from the previous year's level to 113,700 tons. The moderate gain was largely in lemons because of larger supplies coupled with lower prices.

Exports of fresh lemons in 1978, mainly to West Germany, increased 9 percent from the previous year's level to 3,800 tons. The large 1977/78 lemon crop depressed domestic prices and encouraged growers to seek foreign markets. No orange exports were reported.

The latest customs information shows 1978 imports of citrus fruit at 2,500 tons, mainly from neighboring Argentina, Peru, and Bolivia. Processing continues to account for a small precentage of production, approximately 4,000 tons annually.

South Africa

Production

South Africa's 1979/80 citrus crop, consisting mainly of oranges, is forecast at 710,370 tons, slightly less than the previous years'. Reportedly, overall quality is good, although fruit size is expected to be slightly smaller than normal because of dry hot weather early in the season.

Marketing

Despite the slight decrease in citrus output, preliminary estimates indicate that exports of fresh citrus in 1979 will rise 4 percent over the record 1978 level to 441,699. Exports take 60 percent of South Africa's citrus crop and provide 90 percent of the industry's gross revenue. Last year's export volume produced a record high gross income of \$202.2 million and a net return to the farmers of \$142.7 million, 22 and 64 percent above the 1977 and 1976 levels, respectively.

Because of the inportance of citrus as an earner of foreign exchange, the South African Citrus Exchange carries on a rigorous promotional program for its Outspan and other brands. Expenditures for this purpose, financed by levies on gross citrus proceeds, reached, \$2.74 million in 1977 compared with \$2.61 million in 1976. The bulk of South

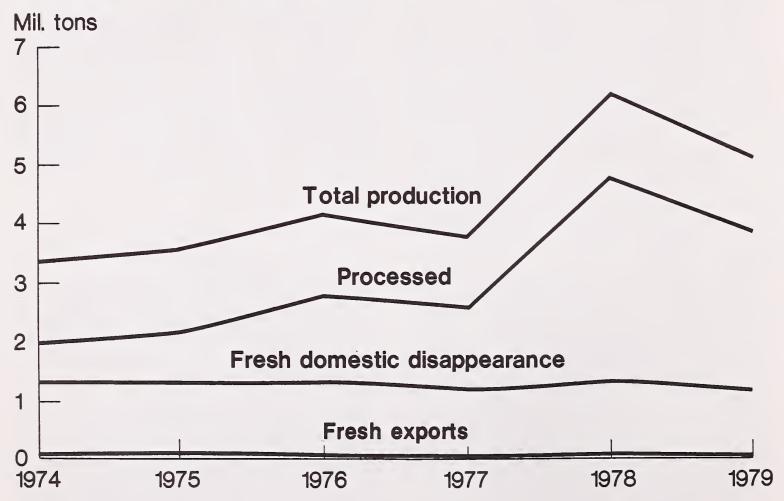
Africa's citrus exports go to the United Kingdom and Europe. With the market in Iran apparently lost, these outlets will become increasingly important.

Supplies to the processing industry, consisting mainly of oranges, jumped 64 percent in 1978/79 from the previous year's level to 196,423 tons. The average per-ton-prices that processors paid for oranges, grapefruit, and lemons in 1978

were \$34. \$15, and \$44 respectively. Intake of citrus for processing is expected to decline moderately in 1979/80 to 181,837 tons because of the decline in citrus production.

This circular was prepared by John H. Wilson of the Horticultural and Tropical Products Division, CP, (202) 447-2974.

Production, Utilization, and Disposition of Brazilian Oranges (Sao Paulo Only), 1974 to 1979



Commodity Programs, FAS, USDA

EXPORTED BY	S 1/ 1974-79	
PROCESSED, E	UNITRIES, SEASONS	Metric Tons)
PRODUCED,	PHERE CC	ingand Metri
FRESH:	RN HEMISI	(In Thousand)
ORANGES,	D SOUTHE	
SWEET	SELECTE	

W DURSOUT UT)	Country 1974 1975	Oduced 833 729 Australia. 341 362 Brazil 3/ 5,500 5,200 Chile. 43 44 South Africa 4/ 545 499	Ocessed 76 55 Australia 167 172 Brazil 5/ 2 2 Chile 2 2 South Africa 4/ 183 74	Argentina 28 5 Australia 10 15 Brazil 5/ 40 73 South Africa 4/ 273 304
Wetric Tons/	5 1976	743 322 0 5,960 4 4 564	5 2 156 2,734 4 148	75 73 36 316 316
	1977	740 356 5,520 45	2,530 2,530	30 16 301
	1978	670 364 7,854 47	197 197 158	27 20 45 372
	1979 2/	700 368 6,930 148 583	95 200 3,876 144	25 21 361

1/ Data are for seasons beginning with year shown. Export data are for calendar year shown. $\frac{2}{10}$ Estimate. $\frac{1}{10}$ Total Brazilian production. $\frac{1}{10}$ Production may include a small quantity of tangerines. $\frac{1}{10}$ Sao Paulo state only.

SOURCE: Produced and Processed, FAS Attache Reports, Exported, See Individual Export Tables for Source.

TANGERINES, FRESH: PRODUCED, PROCESSED, EXPORTED BY SELECTED SOUTHERN HEMISPHERE PRODUCING COUNTRIES, SEASONS 1/1974-79 (In Thousand Metric Tons)

	Country 1974		Processed Argentina Australia	Exported Australia Brazil 3/	Description not strailable inknown. Or not, appli
TIT TITO	7/4	230 26 1437	1±21	~ −	or not app
TII TIIOMSMIN IION III	1975	230 27 516	Ω-	4	licable.
- Or 10	1976	229 31 636	_+ ~	んの	
	1977	250 28 567	- - - -	142	
	1978	255 29 351	0+	rνω	
	1979 2/	226 27 326	∞ ←	70	

1/ Data are for seasons beginning with year shown. Export data are for calendar year shown. $\frac{2}{10}$ Estimate. $\frac{1}{10}$ Sao Paulo state only. $\frac{1}{10}$ Less than 500 tons.

SOURCE: Produced and Processed, FAS Attache Reports, Exported, See Individual Export Tables for Source.

Commodity Programs, FAS, USDA

Commodity Programs, FAS, USDA

		1978	280 442 363 35
ID BY		1977	320 371 255
	IS, SEASONS 1/ Tons)	1976	24.7 36 384 46 22
PRODUCED, PROCESSED	SPHERE COUNTRIES, SE Thousand Metric Tons	1975	339 375 44 24
FRESH:) THERN HEMISPHERE (In Thousan	1974	306
, ILEMONS,	SELECTED SOU	Country	roduced Argentina Australia Brazil 3/ Chile South Africa

त्य

1979

267 43 367 32

Estimate 7 Export data are for calendar year shown. Sao Paulo state only; includes both lemons and limes. 4/ Less than 500 tons. Data are for seasons beginning with year shown.

27 42

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South Africa.....

88700

5-28%

21 22 27

21 21 21 21

22-9

SOURCE: Produced and Processed, FAS Attache Reports, Exported, See Individual Tables for Source.

July 1979

Exported Argentina......

Australia.....

Chile....

Chile....

Australia...

Argentina..

Processed

South Africa....

GRAPEFRUIT, FRESH: PRODUCED, PROCESSED, EXPORIED BY SELECTED SOUTHERN HEMISPHERE COUNTRIES, SEASONS 1/ 1974-79 (In Thousand Metric Tons)

	Country	Produced Argentina Australia Brazil 3/ South Africa	Processed Argentina Australia South Africa	Exported Argentina Brazil 3/ South Africa
년)	1974	177 18 18 112	72 10 147	18
In Thousand	1975	185 20 3 33	9	740
and Metric I	10	mmo.w	60 11 13	10
Tons /	1976	180 22 27	828	12 - 65
-	1977	170 23 81	85 12 22	17
	1978	25. 8 8	23	19
	••••			
	1979 2/	140 27 8 96	30	59

---Denotes not available, unknown, or not applicable. 1/ Data are for calendar year shown. 2/ Estimate. 3/ Sao Paulo state only. 4/ Less than 500 tons.

SOURCE: Produced and Processed, FAS Attache Reports, Exported, See Individual Export Tables for Source.

Commodity Programs, FAS, USDA

ORANGES, FRESH: EXPORTS FROM ARGENTINA, 1973-78

		: 1978		-	3,384	1	5,176	570	006	15,467		!	1	1,431	26,928	1	1 1	1	1	26,928	
		: 1977		1 1	1,980	182	2,729	2,340	3,751	15,940	1		72	360	27,354	5	- 1) i	2,880	2,941	30,295	
	Calendar Year	: 1976		1 1	1 1	1	1,284	1,800	, 85	11,242	1 /	+ 2+		1	14,835	2,750		1	2,750	17,585	
	Calenda	: 1975		1	1	1	364	1 1	243	3,040	1	1 1	1 1	1 1 1 1	3,647	1,635		~	1,637	7,284	
(Metric Tons		: 1974		171	1	1	9,117	1 1	1,692	9,085	148	1 1	817	1,179	25,209	604,0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 1	2,409	27.618	wailable.
	•	1973	••	1	!	1 1 1	8,400	1	2,680	: 11,778	1 1	1 1	6	1,787	24,654	2,881	750		3,640	28.294	own, or not a
	Country of		EUROPE	Belgium-Luxembourg	Czechoslovakia	Finland	France	German Dem. Rep.	Germany, Fed. Rep.	Netherlands	Norway	Poland	Sweden	United Kingdom	Total	Chile	New Zealand	Saudi Arabia	Total	Grand Total	Denotes not available, unknown, or not available.

SOURCE: 1973-76 Official Trade of Argentina, 1977 and 1978 FAS Attache Reports.

Commodity Programs, FAS, USDA

ORANGES, FRESH: EXPORTS FROM BRAZIL, 1973-78

		(Metric Tons)				
Country of			Calendar	Year		<
Destination	1973	: 1974	: 1975	: 1976	: 1977	: 1978
EUROPE) (
Czechoslovakia	1,00¢	1	3,996	8,531	1	
Finland.	1,470	1,79	2,639	1,659	1,806	926
France	1,034	579	.	182	. 290	1 1
German Dem. Rep	. 4,230	10,080	8,280	5,400	5,913	10,458
ed.	5,751	`	1,324	<u> </u>	+	
Malta	!	1	779	:	1	525
Netherlands	: 16,809	19,396	33,910	19,949	26,103	28,594
Norway	116	252	228		123	1
Poland	1,425	25	1 1	!	1	1 0 1
Sweden	£	25	4.50	69	丰	1 1
United Kingdom	8,244	3,583	5,662	1+38	1,255	2,622
Other	10	184	145	1	53	1 1 1 1
Total	39,933	36,461	57,416	36,229	35,591	H3,175
COTTENT OF THE STATE OF THE STA						
Argenting			1	!	!	1,245
Canada	029	1	1	1	1	
Hong Kong	175	145	1	1		}
Iran	-	2,625	9,465		-	
Senegal		263	068	175	-	282
United Arab Emirates	!	1 1	2,300	!		
Other	96	25	1	1	1	300
Total	901	3,058	15,655	175	1	2,232
Grand Total	140,834	39,519	73,071	36,404	35,591	45,407
Denotes not available, unknown,		or not applicable.				

SOURCE: 1973, 1975, 1977 Official Trade of Brazil; 1974, 1976, and 1978 FAS Attache Reports.

July 1979

Country of Destination Hustria Austria Belgium-Luxembourg Bengium-Luxembourg Bengium-Luxembourg Bengium-Luxembourg Bengium-Luxembourg Bengium-Luxembourg France Germany, Fed. Rep Iceland Germany, Dem. Rep Netherlands Norway Norway	2,436 1973 1973 10,386 10,386 10,386 10,386 10,386 10,386 10,386 10,386 10,188	. 1974 16,527 16,527 16,527 19,702 19,703	Calendar 2,985 12,542 2,023 4,727 55,945 33,935 5,998 6,403 6,403 78,639 2,415 2,415 2,415 10,179 56,905 1,752	dar Year 1976 13,668 2,079 13,395 148,954 34,754 34,754 3,120 5,353 5,353 5,353 3,120 73,601 8,000 8,000 8,000 8,000 8,000 8,000 9,659 76,289 3,778	2,683 11,910 2,412 14,808 28,010 6,230 1,66,402 5,528 12,855 12,855	3,396 16,033 16,033 16,045 19,505 19,505 11,642 11,643 11,	
Total	27,435	39,881	78,683	101,676	113,472	120,711	- 1
: A	.: 228,913 nown, or not	273,119 applicable.	30+,030	316,164	300,549	371,526	

SOURCE: Attache Reports

TANGERINES, FRESH: EXPORTS FROM ARGENTINA, 1973-78 (Metric Tone)

	Calendar Year	1975 : 1976 : 1978				43 12 331	175	10	185 4-3 12 331						186 43 12 331	
(Metric Tons)		1973 : 1974 : 19		31		73 42			10+		19	1		7	111 145	or not applicable.
	Country of		EUROPE	France	Germany, Fed. Rep	Netherlands	Sweden	Other	Total	OTHER COUNTRIES	Bolivia	Chile	Other		Grand Total	Denotes not available, unknown, or not applicable.

SOURCE: 1973-76 Official Trade of Argentina, 1977 and 1978 FAS Attache Reports.

Commodity Programs, FAS, USDA

TANGERINES, FRESH: EXPORTS FROM BRAZIL, 1973-78 (Metric Tons)

O Company of the Comp				Calendar Year	Year				
Conficty of	CDO 5		1001	1075		1976	1977	••	1978
Destination	1973		19/4	1217					
••			ç			C	()		
	×		- - - - - - - - - - - - - - - - - - -	1		8	03		l ³
rilland.			0,0	011	_	7 2	233		5.00±
Netherlands	223		4 6 5		•	ر ام			\
Chrodon	1		9 7	 		2			1.41.
	(,		ζ.	2 1		1	9		414
United Kingdom	7		3	\		-	1		7
O+hon	1		1	1					3
•			700	700 1	•	8 2 2 2 2	256		2, 28t
Grand Total	5		ے چ	1,220	_	106)			
	•								
- Denotes not available, unknown, or not applicable,	n, or not	appl:	icable.						
	(4							

SOURCE: 1973, 1975, 1977 Official Trade of Brazil; 1974, 1976, 1978 Fas Attache Reports.

July 1979

LEMONS, FRESH: EXPORTS FROM ARGENTINA, 1973-78 (Metric Tons)

2,945 6,710 1,172 6,183 6,183 6,183 24,535 24,535	1,980 1,980 1,980 1,116 2,117 5,688 5,688 17,133	Calendar Year 1976 - 1976 - 130 41 5252 648 06 1,257 1,257 1,552 - 217 - 217 - 217 - 222 - 236 - 236	Calen 1,066 1,066 1,066 2,48 126 10,145 10,145	24 86 24 86 24 86 24 209 25 2047 27 209 27 209 27 209 27 209 27 2742 27 2742 85 7,742 85 7,887	2,218 2,218 2,218 251 1,268 124 374 374 374 374 374 374	Country of Destination EUROPE Czechoslovakia Finland France German, Dem. Rep. Germany, Fed. Rep. Hungary Netherlands. Poland Sweden. United Kingdom. Total. Total. Grand Total
				applicable.	wn, or not	Denotes not available, unknown, or not applicable
24,535	17,133	11,014	10,145	7,887	5,085	Grand Total
1	1	1	1	1/145	27	OTHER COUNTRIES.
24,535	17,133	11,014	10,145	7,742	5,058	Total
2,945 6,710 6,183 6,183	8837 <u>7</u> 888	252 1,257 1,257 1,552 648 5,533 	1,066 1,066 1,52 1,611 6,306 126	3,138 3,138 209 2,047 181 567	2,218 2,218 1,268 124 374 374	Finland France German, Dem. Rep Germany, Fed. Rep Hungary Netherlands Poland Sweden United Kingdom Yugoslavia
		idar Year 1976	19	: 1974	1973	Country of Destination
				/ CTT 0 T		

SOURCE: 1973-76 Official Trade of Argentina, 1977 and 1978 FAS Attache Reports.

Commodity Programs, FAS, USDA

July 1979

1

LEMONS AND LIMES, FRESH: EXPORTS FROM BRAZIL, 1973-78

Constant of the		(Me	(Metric Tons)	Calendar Year	Year		
Country or Destination	1973	••	1974 :	1975	1976 :	1977 :	1978
France. Germany, Fed. Rep. Hungary. Netherlands. United Kingdom.	45 13 177		77 17 26	105 80 128 188	128 31 24 14 25	162 142 149 149	249 86 163 40 31
Grand Total	235		172	604	7400	262	569
Denotes not available, unknown or not applicable	own or not	appli	cable.				

SOURCE: 1973, 1975, 1977 Official Trade of Brazil, 1974, 1976, 1978 FAS Attache Reports.

Commodity Programs, FAS, USDA

Commodity Programs, FAS, USDA

		: 1978	2,513 1,970 2,082 858 293 1,098 1,098 2,634 2,634	16,358	149 214 5,339 343	6,045	22,403
		: 1977	2,216 536 359 1,214 862 351 1,270 1,270	12,750	1,247 198	2,298	15,048
, 1973-78	ıdar Year		1,786 584 584 393 764 764 130 81,7 6,188	12,246	459 24 479 2/ 339	1,301	13,547
EXPORTS FROM SOUTH AFRICA, 1973-78 (Metric Tons)	Calendar	: 1975	1,792 1,033 303 807 2,227 261 442 183 4,54 5,659	12,987	170 240 472 124	1 006	13,993
EXPORTS FROM (Metric To		: 1974	1,573 650 361 1,863 120 261 313 120 5,433	11,961	96	+9+1	12,425
LEMONS, FRESH:		1973	1,485 692 1,158 1,153 1,153 1,153 1,758 1,758 1,758	9,566	19	21414	9,810
LEMONS,	Country of :	Destinat	Austria. Belgium-Luxembourg. Denmark. Finland. France. Germany, Fed. Rep. Norway. Sweden. Sweden. Switzerland United Kingdom and Ireland. Scandinavia.	Total	Canada Far East Widdle East	Total	Grand Total

⁻⁻⁻Denotes not available, unknown, or not applicable.
1/ United Kingdom only. 2/ Includes 320 tons to Mauritius.

SOURCE: FAS Attache Reports

GRAPEFRUIT, FRESH: EXPORTS FROM ARGENTINA, 1973-78 (Metric Tons)

373 : 1974 : 1975 : 1976 : 1977 : 1978	2,522 7,444 2,773 3,316 4,090 1,584 1,660 2,423 1,646 1,021 6,181 2,553 5,181 5,181 7,073 8,765 10,541 10,541 10,541 10,541 10,541	,666 18,210 10,347 12,378 17,103 19,362	23 18 8	,689 18,228 10,355 12,378 17,103 19,362	
1973	2,522 1,660 2,553 61 1,870	11,666	23	11,689	
Country of Destination :	EJROPE Belgium-Luxembourg France German, Dem Rep Germany, Fed Rep Italy Netherlands Sweden United Kingdom Other	Total	OTHER COUNTRIES.	Grand Total	

SOURCE: 1973-76 Official Trade of Argentina, 1977 and 1978 FAS Attache Reports.

Commodity Programs, FAS, USDA

, 1973-78
AFRICA
SOUTH
FROM
EXPORTS FROM SOUTH AFRICA,
FRESH:
GRAPEFRUIT,

	: 1978	1,482	11,0 4 3 13,431 1/5,731 1,438	3/ 19,235 3,341 168	59,802	3,995 3,995 24	4,814	64,616
	: 1977	1,139 2,582 586	7,518 11,952 2/ 3,729 1,741	3/ 14,277	146,241	202 14/5,034 176 3,115	8,527	94,768
dar Year	1 1	2,950 1,462	912 9,149 11,369 1,3,386 1,910	785 1,264 20,987	54,544	3,865 104 236 85	4,905	69,446
(Calendar	: 1975	1,248 3,426 1493	1,139 9,728 15,491 	1,1,66 1,450 16,40 1,400 1,400	59,571	540 1,620 122 147	2,429	62,000
(Metric Tons)	: 1974	1,044	1,7,0 1,0,0,0 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0	1,079 1,642 21,370	57,083	1,318 2,194 256	3,768	60,851
***************************************	1973	2,152 5,06	7,510 7,510 908	478 1,278 1,702 22,536 	59,909	1,160 116 180	1,456	61,365 60,851
Country of		Austria. Belgium-Luxembourg.	Finland France Germany, Fed. Rep Italy, Malta, and Portugal Netherlands	Norway Sweden Switzerland United Kingdom and Ireland Scandanavia Other	Total	OTHER COUNTRIES Canada. Japan. Far East. Middle East.	Total	Grand Total

^{1/} Italy only. 2/ Excludes Portugal. 3/ United Kingdom only. 4/ Includes Far East.

SOURCE: Attache Reports.

ORANGE JUICE, CONCENTRATED: EXPORTS FROM BRAZIL, 1973-78 (Metric Tons)

1/ Includes 156 tons to Lebanon and 130 tons to Argentina.

SOURCE: 1973, 1975, 1977 Official Trade of Brazil; 1974, 1976, 1978 FAS Attache Reports.

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APR 5 '79

fresh and processed cirros fruit

FCF 1-79 February 1979

NORTHERN HEMISPHERE CITRUS PRODUCTION DOWN IN 1978/79

Citrus output of leading Northern Hemisphere producing countries in 1978/79 is placed at 27.0 million tons, 6 percent below the level of last season. The most notable declines will occur in orange and lemon production, down 4 and 18 percent, respectively, because of unfavorable weather conditions in Spain, Italy, and the United States.

Likewise, adverse weather in the United States as well as in Belize has affected this season's grapefruit crop. Tangerine outturn is also down, primarily because of a reduction in the area planted to Mikans in Japan.

Trade in fresh citrus by the Northern Hemisphere nations was mixed during the 1977/78 season. Compared with the previous year's level, exports of oranges and grapefruit declined because of tight domestic supplies in Italy, the United States, and Israel. Substantial gains by Spain and Morocco pushed tangerine exports up. Lemon exports rose slightly—despite reductions from the United States and Italy—because of a sharp increase in sales by Spain, Greece, and Turkey.

The Northern Hemisphere accounts for approximately three-fourths of total annual world citrus production. This circular covers the citrus situations in Belize, Cyprus, Egypt, Greece, Israel, Italy, Japan, Mexico, Morocco, Spain, Turkey, and the United States. All tons are metric, and are equivalent to approximately 2,204.6 pounds.

Belize

Production. Production prospects for the 1978/79 season were bright until hurricane Greta struck the citrus groves in the Stan Creek Valley on September 18, 1978. The grapefruit crop was severely damaged

as the harvest had been underway for only 2 weeks. At best, grapefruit production may reach 4,000 tons. Devastation to the orange crop was less severe and output is currently placed at 22,450 tons.

Despite this year's losses, higher prices during the past two seasons have provided some cushion to the growers. The industry anticipates a bumper crop in the 1979/80 season as the trees are expected to bear heavily following the shock they received from the hurricane.

Marketing. More than 90 percent of Belize's citrus production is processed into orange and grapefruit concentrates, segments, and oils. During the 1978/79 season, Belize's processing plants are expected to produce 400,000 gallons (65° Brix) of orange concentrate and 36,000 gallons (58° Brix) of grapefruit concentrate, down 25 to 75 percent, respectively, from the previous year's level. The industry plans to export all of its concentrate production to Trinidad and Tobogo.

An estimated 815 tons of grapefruit are available for production of canned sections this season. Some of this output will continue to be exported to the United Kingdom. Production of orange and grapefruit oils is placed at 100,000 and 6,000 pounds, respectively, down 19 and 75 percent from that of the 1977/78 season.

Cyprus

Production. Citrus production in the 1978/79 season is placed at 202,000 tons, slightly below last year's crop. Lemon production is expected to fall sharply to 24,000 tons because of an infestation of the flower moth in the Dimassol and Kryenia areas. The orange and grapefruit crops are expected to remain near last year's levels of 109,000 and 66,000 tons, respectively.

Citrus output should increase during the next few years, especially in the southern sector of the island. Government irrigation projects in the Paphos area are underway and when completed in 1981, will provide water for an additional 12,000 acres, which probably

will be planted to vegetables, citrus, and avocadoes. Citrus production in this area is expected to reach 65,000 tons by the mid-1980's, compared with present annual output of 4,000 tons.

Marketing. The citrus industry continues to rely heavily on its export market. Of the 70,900 tons of fresh citrus exported from the southern sector last season (26,552 tons of oranges, 35,215 tons of grapefruit, and 8,440 tons of lemons), 74 percent was shipped to the European Community (primarily to the United Kingdom) and 24 percent to East European countries. In 1978/79, citrus exports from the southern sector are expected to decline slightly to 68,890 tons. No official data are available for the northern portion of Cyprus but it is estimated that about 81,000 tons will be exported from this sector, mainly to Western Europe.

Following the troubles of 1974, an incongruity has developed. Most of the processing capacity is in the south, while the majority of surplus fruit is in the north. Since no trade exists between the Greek and Turkish sectors, the south has been so short of culls for processing that it processed only 11,861 tons in 1977/78.

In the northern sector, there are only two very small, antiquated processing plants with a combined capacity of 50 tons of fresh fruit per day. However, a new plant in Morphu, when completed, will have the capacity to process 40,000 tons of fresh fruit annually.

Egypt

Production. Egypt's 1978/79 citrus crop, consisting almost entirely of sweet oranges, mandarins, and limes is placed at 827,000 tons, 4 percent above last year's crop, but 18 percent below the record 1975/76 outturn. Last season's short crop was because of hot dry winds during the fruit-setting period.

Recent plantings of sweet oranges and mandarins have increased Egypt's total citrus area since 1974/75 (see table below). Citrus production has been identified as very profitable with good export potential. However, high initial costs and lack of arable land are

limiting expansion to large agribusiness firms with advanced management techniques. Recently, the Egyptian Government and two large corporations made plans to reclaim about 12,600 hectares of desert land for citrus. This land is expected to yield several thousand tons of additional citrus, mostly oranges for export, by 1990.

Marketing. Fresh orange exports normally account for about a quarter of production while shipments of other fresh citrus annually amount to about 1,000 tons each. Most citrus exports are marketed by one public sector company and are destined primarily for the Middle East and Iran. Second-grade qualities are shipped to Eastern Europe and the USSR.

The amount of citrus processed is still very small and represents less than one percent of total production. About 4,000 tons of oranges were processed last season, primarily into single strength orange juice. Almost all of the output was exported to the Middle East countries.

Greece

Production. The 1978/79 orange outturn, consisting of about 70 percent Washington Navels, is placed at 600,000 tons, 40 percent greater than the previous year's frost-damaged crop. The expected increase results from new trees entering the production stage, as well as recovery from last year's poor crop.

On the other hand, the lemon outturn is expected to fall one-tenth from last season's level because of unusually dry weather that affected the fruit set. The Maglino, Karystino, and Adamopouloc varieties comprise 48, 23, and 6 percent, respectively, of lemon production.

Marketing. Because of weaker demand from the East European countries and Austria, exports of oranges fell moderately in 1977/78 to 197,059 tons. Shipments to the EC (primarily to West Germany) jumped 175 percent to 40,676 tons, reportedly because of lack of confidence in the purity of Spanish oranges following the alleged discovery of poisoned Spanish oranges in West German retail outlets. Because of the continued lack of purchasing interest in

EGYPT: CITRUS AREA, 1974/75-1978/79

(thousand hectares)

Fruit	1974/75		1976/77		1978/79	
	Bearing	Total	Bearing	Total	Bearing	Total
Sweet oranges	43	55	45	64	47	66
Mandarins	_	6	5	6	5	7
Limes	-	-	3	4	3	5

⁻ Denotes not available, unknown, or not applicable.

Eastern Europe, orange exports in 1978/79 are expected to remain near last year's level.

Lemon exports during 1977/78 reached 100,093 tons, up 32 percent from the previous season's because of extremely high demand from Eastern Europe and the USSR, which together accounted for 90 percent of the shipments. Foreign demand for Greek lemons is expected to further increase in 1978/79 because of the poor crops in Italy and Spain.

Quantities or oranges, lemons, and tangerines for juice production are not expected to exceed 100,000, 5,000, and 5,000 tons, respectively, during the 1978/79 season. Normally about two-thirds of the orange and lemon juice produced is shipped to Eastern Europe and Russia. Domestic consumption of these products is insignificant.

Israel

Production. Israel's 1978/79 citrus crop is pegged at 1.48 million tons, slightly above last season's short crop, but below the 1976/77 output. Production of Valencias and grapefruit is expected to rebound to 320,000 and 470,000 tons, respectively, with satisfactory-to-excellent yields anticipated in all major producing areas. The Shamouti orange outturn is forecasted 6 percent below the previous year's output and 29 percent below the level reached in 1973/74. Urban encroachment and the Government's policy of converting marginal citrus areas to other crops are primarily responsible for the decline in the production of the Shamouti orange in recent years.

Marketing. Israel is highly dependent on foreign markets, as 90 percent of its production is exported in either the fresh or processed forms. Exports of

fresh citrus in 1977/78 totaled 887,600 tons (621,000 tons of oranges, 251,300 tons of grapefruit, and 15,300 tons of lemons). Aside from some shipments of oranges to Singapore and some grapefruit to Japan, virtually all of Israel's exports of fresh citrus are to Europe. The EC took 64 percent of these shipments in 1977/78, led by the United Kingdom and West Germany.

The total quantity of citrus processed last year declined marginally despite the increase in oranges processed to 251,000 tons. About 455,700 tons of grapefruit and 29,200 tons of lemons were processed, down 6 and 14 percent, respectively from 1976/77.

Italy

Production. The 1978/79 Italian citrus crop is placed at 2,307,600 tons (1,394,000 tons of oranges, 600,000 tons of lemons, 305,000 tons of tangerines, and 2,600 tons of grapefruit), down 16 percent from the previous year's estimate principally because of a prolonged drought accompanied by hot dry winds during the fruit setting period.

The figures in the following table show that citrus area, consisting mainly of oranges, has not changed significantly over the past few seasons. "Specialized" orange area (area planted only to oranges) has increased about 1 percent since 1973/74 but is not expected to expand significantly in the near future, despite the current high prices for fresh oranges. Area planted to lemons also has remained relatively static in recent years and is not expected to increase any time soon. However, with better control of "Malsecco," a disease that drastically reduces yields,

ITALY: CITRUS AREA

(In hectares)

1973/74	1975/76	1977/78
99,990	100,242	101,277
18,486	18,386	17,943
35,486	35,034	34,970
10,544	10,562	10,414
*	,	22,839
15,720	14,829	13,073
		162
12	12	12
156,804	156,089	159,248
44,762	43,249	41,442
201,566	199,338	200,690
	99,990 18,486 35,486 10,544 21,224 15,720 104 12 156,804 44,762	99,990 100,242 18,486 18,386 35,486 35,034 10,544 10,562 21,224 20,665 15,720 14,829 104 148 12 12 156,804 156,089 44,762 43,249

lemon production could improve. Specialized tangerine area has risen nearly 11 percent since 1975/76 because of new trees entering the bearing stage.

Marketing. Since the Italian citrus industry holds a monopoly on the domestic market, prices are at very high levels. Such prices have rendered Italian citrus less competitive in international markets even with substantial help from the EC's subsidy programs. Penetration (export) and processing subsidies for 1978/79 are shown in the following table.

Lemon exports during 1977/78 dropped 24 percent from the previous season's total to 178,690 tons. Eastern Europe took 66,043 tons (-27 percent) and West Germany took 58,730 tons (-11 percent). Lemon shipments during 1978/79 are expected to drop further to 150,000 tons.

Orange exports, mainly Bloods, fell 44 percent in 1977/78 to 139,500 tons. As usual, West Germany was the leading customer with 38,621 tons (-40 percent) followed by Switzerland with 28,761 tons (-25 percent). This year's exports are expected to reach only 120,000 tons.

Italy's processing sector is based mainly on essential oil and orange juice production. The EC's processing subsidies for oranges and lemons are designed to encourage processing of these fruits, yet no new processing plants have been constructed recently. During the 1977/78 season, the industry processed 235,000 tons of oranges, 120,000 tons of lemons, 9,000 tons of mandarins, and 21,500 tons of Bergamot oranges.

Japan

Production. According to the Ministry of Agriculture, Forestry, and Fisheries (MAFF), Mikan produc-

tion in 1978/79 will fall 12 percent from the previous year's level to 3,097,000 tons. The lower outturn is primarily attributed to a decline in the total fruit bearing area and to low temperatures that prevailed during maturation of the fruit.

Following a highly expansionary planting period from 1963 through 1974, production of Mikans is leveling off. Because of low prices and limited market alternatives, the Japanese have implemented acreage diversion and crop thinning programs to curb production. Area planted to Mikans is to be reduced by 30,000 hectares, or 20 percent of the current total, during the next 3 years.

Production of Navel oranges is relatively small but has grown gradually in recent years, as they replace the Mikan. This season's Navel crop is expected to reach 16,000 tons, 4 percent above last year's output and 31 percent above the 1973/74 level. The outturn of Summer oranges (Natsu-Mikan), a sour variety, harvested in February and March is expected to decline slightly to 315,000 tons. Lemon output is placed at 800 tons.

Marketing. Exports of fresh Mikans (shipped during November and December) totaled 21,970 tons last season, up 2,000 tons from the 1976/77 level. Canada took 19,190 tons (87 percent of shipments) followed by the United States with 880 tons. Fresh Mikans are currently allowed to be marketed in only six U.S. States; Washington, Oregon, Montana, Idaho, Alaska, and Hawaii.

Exports of canned Mikan sections have been declining in recent years because of keen competition from Spain and Taiwan and high export prices following appreciation of the yen. The United States was again Japan's leading market for canned Mikans, taking 22,166 tons or 57 percent of total shipments

SUBSIDIES PAID FOR ITALIAN CITRUS, 1978/79 SEASON

(lire per 100 kilograms)¹

	Export Subsidies		Processing Subsidy	
Fruit	EC Members	Third Countries	Processing	
Oranges				
Moro, torocco	103	92	² 92	
Sanguinello	88	92	3 48	
Biondo commune	58	51	4 65	
Sanguigno commune	58	51	4 97	
Clementines	51	69	<u> </u>	
Mandarins	88	69	3 –	
Lemons	63	40	⁶ 72	

¹ Lire subsidy calculated at the green lira/unit of account exchange rate in effect in November 1978 (1154 lire/unit of account). ² Linked to a minimum purchase price of 123 lire per 100 kilograms. ³ Linked to a minimum purchase price of 80 lire per 100 kilograms. ⁴ Linked to a minimum purchase price of 97 lire per 100 kilograms. ⁵ No processing subsidies in effect. ⁶ Linked to a minimum purchase price of 118 lire per 100 kilograms.

in calendar 1977; West Germany followed with 9,559 tons.

Japan continues to rely heavily on imports to satisfy domestic demand for citrus. Lemon imports (virtually all from the United States) are expected to be a record 115,000 tons in 1978 and increase further in 1979. On the other hand, grapefruit imports for 1978 are placed 10 percent below the 1977 level of 161,242 tons because of excessive diphenyl residue levels on imported grapefruit in late 1977.

Imports of fresh oranges, orange juice, and grape-fruit juice continue to be bound by stringent quotas. However, under the Strauss-Ushiba agreement of January 13, 1978, Japan agreed to expand the fresh orange import quota from 18,000 tons in Japanese fiscal year 1977 (April 1, 1977-March 31, 1978) to 45,000 tons in JFY 1978. The citrus juice quota was also increased to 4,000 tons (3,000 tons of orange juice and 1,000 tons of grapefruit juice). Recent negotiations call for a further increase in the fresh orange import quota to 82,000 tons by JFY 1983. Orange and grapefruit juice quotas are expected to increase to 6,500 and 6,000 tons, respectively, the same year.

Mexico

Production. Still feeling the effects of last year's prolonged drought and high temperatures, the combined 1978/79 season production of oranges, tangerines, and grapefruit in the four major citrus producing States of Veracruz, Nuevo Leon, Tamaulipas, and San Luis Potosi is expected to rise only slightly above the 1977/78 crop. These four States account for approximately 90 percent of Mexico's annual citrus output.

Orange production is placed at 686,700 tons, up slightly from last year's outturn, but 40 percent below the 1976/77 crop. Only Veracruz is expecting an increase. The tangerine crop is pegged at 96,400 tons, with gains expected in all States except San Luis Potosi.

Production of grapefruit is forecast at 39,600 tons, 8 percent below last season's crop and 21 percent below the 1976/77 crop. Grapefruit production, however, should increase substantially over the next few years. An estimated 25,000 Ruby Red and 25,000 Star Ruby trees were recently planted in the State of Tobasco.

Marketing. Presently, there are 30 packing sheds in Mexico (25 of them in the State of Nuevo Leon). Only export quality fruit enters these plants. About 25 percent of Neuvo Leon's orange output is exported, principally to the United States, Canada, and Europe. Tangerine exports account for about a quarter of production and are shipped only to the United States and Canada.

Exports of grapefruit normally amount to 10,000-15,000 tons annually and are shipped primarily to Japan and West Europe. Some grapefruit from Veracruz State enters the United States in August before the Florida and Texas marketing seasons are underway.

The processing sector is becoming increasingly important. Presently, there are six processing plants in Mexico with a seventh plant under construction by CONAFRUT, a Federally supported agency designed to provide technical assistance to fruit growers. This new plant is expected to produce 3 million tons of fruit juice (two-thirds orange) annually and export 90 percent of its output to Eastern Europe, Canada, West Germany, and Australia. Another processing plant, Citro-Mexico, Inc., is expanding its processing capacity to 160,000 tons of fresh fruit per year by installing a new 30,000-pound evaporator.

Morocco

Production. According to the Citrus Grower's Association (ASPAM), production in 1977/78 rose sharply for the second consecutive year, setting a record of 1.07 million tons. The 1978/79 season outlook is for a slightly lower outturn of 1.01 million tons, primarily because of reduced production of late variety oranges.

During the 1972/73 season, ASPAM and the Office of Commercialization and Exportation (OCE) declared certain varieties of citrus unsuitable for export and initiated a program to uproot the Wilking, Fine, and the Monreal varieties and plant more exportable varieties such as the Navel and the Clementine. Consequently, total area in citrus has been reduced to 66,000 hectares, compared with 74,000 hectares in 1972/73.

Marketing. In 1977/78, exports of fresh citrus gained for the second consecutive year, reaching 671,300 tons. Shipments were still below those of the early 1970's, but are clearly rebounding. Citrus now ranks second only to phosphates as a foreign exchange earner in Morocco.

Exports of oranges totaled 506,559 tons in 1977/78 (176,319 tons to the USSR, 107,749 tons to France, and 92,648 tons to West Germany) while Clementine shipments totaled 163,104 tons (57,827 tons to France, 43,717 tons to West Germany, and 14,054 tons to the USSR). Exports of grapefruit and lemons totaled 962 and 588 tons, respectively.

Given the bumper crop, citrus processed jumped to 192,000 tons (mainly oranges) in 1977/78 compared with 107,000 tons a year earlier. Most is processed into juice for export, mainly to France and West Germany.

Seven of Morocco's largest processing plants have a total annual capacity of 182,000 tons of fruit. One of

these plants is currently expanding its production capacity, but there are no plans to construct any new plants.

SPAIN

Production. The Spanish Ministry of Agriculture places the 1978/79 citrus crop at 2,720,854 metric tons (1,612,699 tons of oranges, 859,847 tons of tangerines, 238,906 tons of lemons, and 9,402 tons of grapefruit), 4 percent below last season's output. The decline is principally in lemons and Blood oranges, down 24 and 31 percent, respectively, mainly because of defective flowering after low temperatures in February and March.

tangerines, 228,000 tons of lemons, and 5,090 tons of grapefruit), 9 percent above the previous year's level. Because of smaller quantities of oranges and lemons available for export, trade sources expect citrus exports to fall 7 percent in 1978/79. Other factors expected to reduce shipments are the reevaluation of the peseta, a 20 - 25 percent increase in input costs that entails a similar increase in the selling price, the large apple crop in the EC, and the relatively high inflation rate in the EC.

Processing accounted for about 13 percent of production during the 1977/78 season. Processing capacity at 400,000 tons remains unchanged from that of the past few seasons. Output in 1977/78 reached 63,000 tons of juices (two-thirds orange

SPAIN: CITRUS AREA, 1974/76

(In hectares)

Fruit	1974	1975	1976
Oranges			
Navels	92,454	93,606	93,260
White, select	15,123	15,262	15,303
White, common	7,128	6,897	6,778
Blood	11,878	11,026	10,648
Late Varieties (Verna and late Valencia)	18,461	18,356	18,042
Total	145,044	145,147	144,031
Tangerines			
Satsumas	25,427	25,227	26,540
Clementines	24,731	26,323	26,895
Other (Common, Wilkings, etc.)	2,451	2,205	2,267
Total	52,609	53,755	55,702
Lemons			
Verna	19,837	20,892	20,914
Mesero	3,783	4,441	5,424
Other Lemons	1,327	1,437	1,372
Total	24,947	26,770	27,710

The area planted to citrus has trended upward in recent years and was placed at 27,710 hectares in 1976 (see table above). From 1974 to 1976, the decline in the area devoted to oranges, mainly Bloods, was not large enough to offset the gains in the area devoted to tangerines and lemons.

Marketing. Spain is the world's largest exporter of fresh oranges and tangerines, and a principal supplier of lemons. About 90 percent of its exports of fresh citrus are to the European Community, which extends a 40 percent duty preference to Spanish imports.

Citrus exports during 1977/78 totaled 1,756,213 tons (915,301 tons of oranges, 607,822 tons of

juice), 66,505 tons of sections (mostly Satsumas in syrup), and 180 tons of oils.

TURKEY

Production. The 1978/79 citrus production forecast indicates higher outturn of oranges and lower output of lemons, tangerines, and grapefruit compared with the previous season's levels. Sweet orange production, accounting for 62 percent of Turkey's citrus crop, is pegged at 650,000 tons, 8 percent higher than in 1977/78.

The number of all types of citrus trees has steadily increased over the past few seasons. Recent plantings

indicate that as much as 20 percent of Turkey's citrus trees may be in the nonbearing or the limited-bearing stage. The figures in the table below show a substantrial rise in tangerine and lemon tree numbers since the 1969/70 season.

Marketing. U.S. exports of fresh citrus declined substantially in 1977/78. Orange shipments totaled 334,973 tons, down 16 percent from the previous year's. Canada, the largest customer, accounting for nearly half of the market, reduced its purchases by

TURKEY: CITRUS TREE NUMBERS IN SELECTED SEASONS

(thousands of trees)

Item	1969/70	1976/77	1977/78	1978/79
Oranges	7,718	8,475	8,870	9,000
	2,585	4,250	4,350	4,400
	1,502	2,800	3,170	3,300
	88	213	234	240
	525	580	735	750

Marketing. Exports of fresh citrus account for about 15 percent of total production, with lemons the predominant export variety. During the 1977/78 marketing year, lemon exports increased substantially from the previous year's level of 77,116 tons and were shipped primarily to Romania, the USSR, Yugoslavia, and Poland. Orange and tangerine exports, on the other hand, fell sharply by 64 and 20 percent, respectively. The severe drop in orange exports followed Iran's decision to restrict imports of oranges in an effort to protect its domestic market.

Only about 10 percent of citrus production is used for processing. Official information on production and utilization of citrus products is not available.

UNITED STATES

Production. According to a January 11, 1979 report by the USDA Crop Reporting Board, the 1978/79 citrus crop will total 12,107,000 tons (8,136,000 tons of oranges, 589,000 tons of tangerines, 758,000 tons of lemons, and 2,624,000 tons of grapefruit), 6 percent less than last season's level. The lower forecast is primarily the result of a mid-December freeze in California that severely affected the Navel, Valencia, and lemon crops. About 82 percent of the oranges, 88 percent of the tangerines, and 75 percent of grapefruit produced will come from Florida; all the lemon production will originate from California and Arizona.

nearly 12 percent. This decline, coupled with reduced shipments to Europe, was offset by a 94 percent increase in exports to Japan.

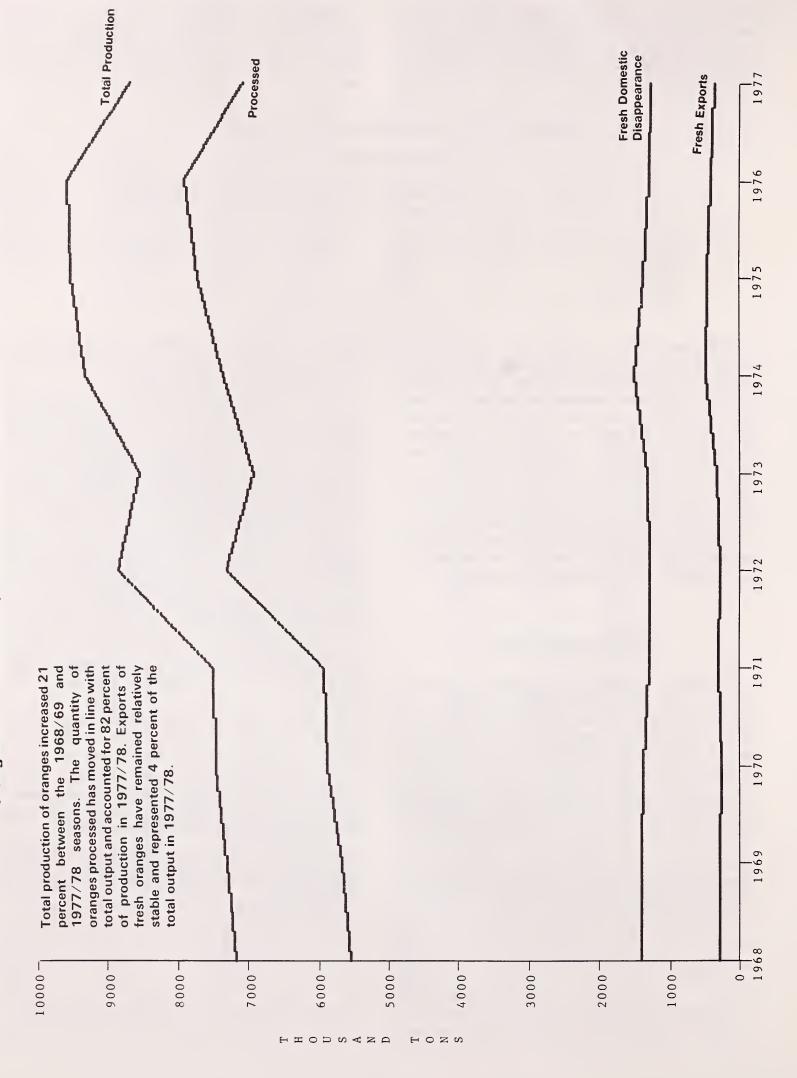
Lemon exports, accounting for 23 percent of production, fell sharply last season despite a record shipment of 108,772 tons to Japan. The overall decrease resulted from a 34 percent drop in European purchases. Exports of grapefruit fell 9,215 tons to 265,162 tons. Reduced purchases from Japan offset larger grapefruit shipments to Canada and Europe.

Approximately 82 percent of the oranges, 60 percent of the grapefruit, and 56 percent of the lemons were processed during the 1977/78 season. Most of the processed oranges were from Florida and were processed into frozen concentrated orange juice (FCOJ). The Florida pack of FCOJ rose slightly to 161.2 million gallons because of a larger juice yield of 1.23 gallons of 45° Brix concentrate per box compared with 1.07 gallons per box a year earlier. The 1978/79 juice yield is estimated at 1.29 gallons per box.

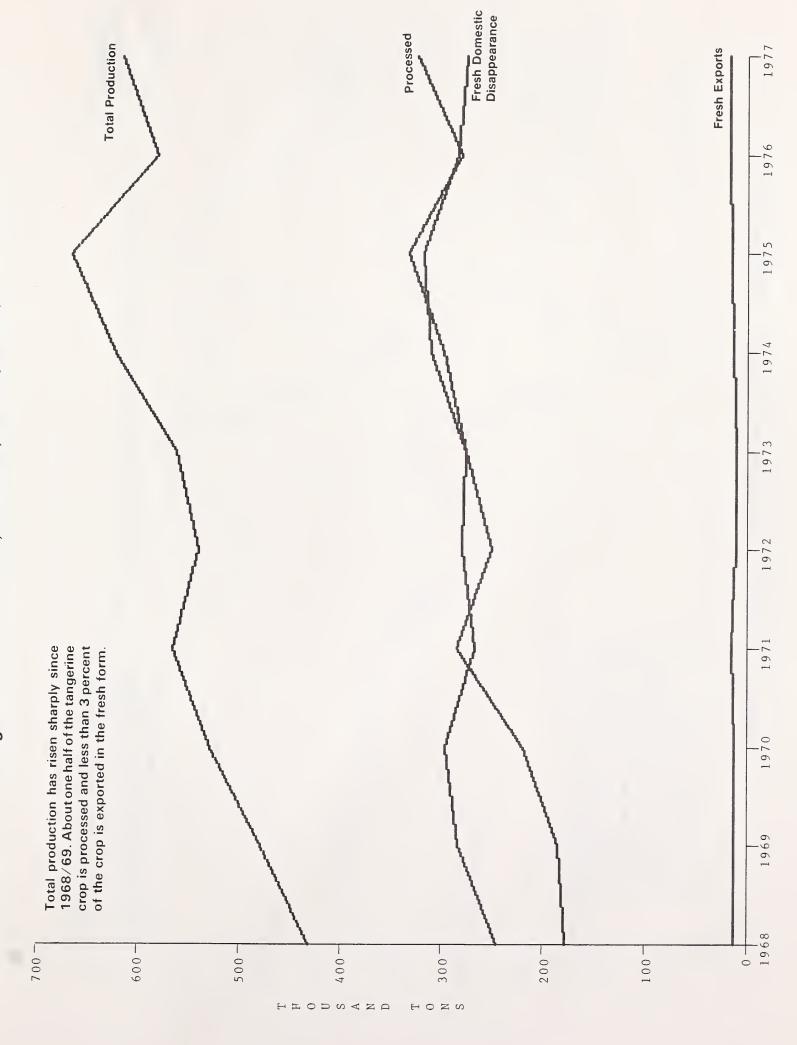
The United States is now a net importer of FCOJ. Imports, during the 1977/78 season, mainly from Brazil and Mexico, increased 244 percent over those of the previous year to 27.75 million gallons. Exports declined 21 percent to 9.41 million gallons. Canada purchases about one-half of these shipments and Western Europe absorbs most of the remainder.

This circular was prepared by John H. Wilson of the Horticultural and Tropical Products Division, CP, (202) 447-2974.

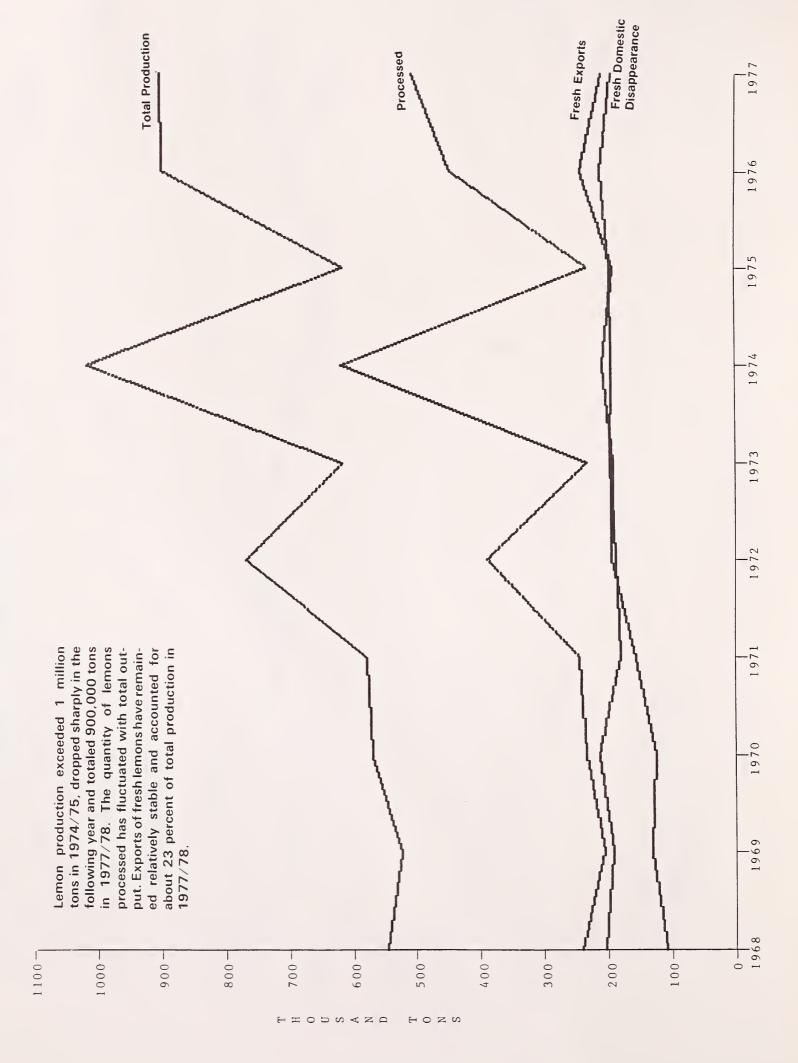
Oranges: U.S. Production, Utilization, and Disposition, 1968/69-1977/78



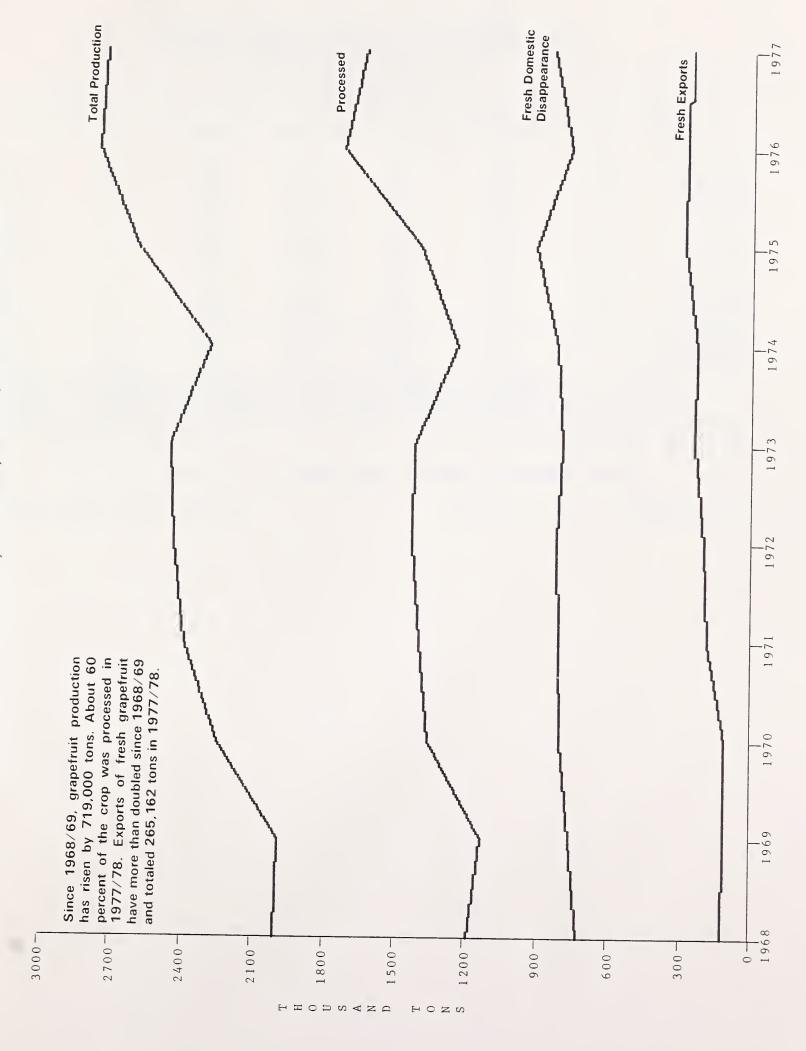
Tangerines: U.S. Production, Utilization, and Disposition, 1968/69-1977/78



Lemons: U.S. Production, Utilization, and Disposition, 1968/69-1977/78



Grapefruit: U.S. Production, Utilization, and Disposition, 1968/69-1977/78



SWEET ORANGES, FRESH: PRODUCTION IN SELECTED NORTHERN HEMISPHERE COUNTRIES, 1973/74-1978/79 (Thousand metric tons)

:_			Crop Year			
Country :	:	:	:	:	•	1 /
•	1973/74:	1974/75 :	1975/76 :	1976/77 :	1977/78 :	$1978/79^{\frac{1}{2}}$
:						
Belize:	47	39	29	26	28	22
Cyprus <u>2</u> /:	173	157	83	100	109	113
Egypt:	767	819	856	755	671	700
Greece:	393	576	533	499	429	600
Israel:	1,223	1,016	995	968	949	975
Italy:	1,557	1,763	1,580	1,900	1,592	1,394
Jamaica:	25	53	42	28	22	20
Japan:	12	14	15	15	15	16
Mexico 3/:	966	955	835	1,142	679	687
Morocco:	629	477	532	584	805	721
Spain:	2,060	1,888	1,991	1,781	1,718	1,613
Turkey:	470	500	540	545	600	650
United States	8,515	9,294	9,519	9,567	8,643	8,136
Total	16,837	17,551	17,550	17,910	16,260	15,647

 $[\]underline{1}$ / Preliminary. $\underline{2}$ / Includes Tangerines. $\underline{3}$ / States of Nuevo Leon, San Luis Potosi, Tamaulipas, and Veracruz only.

SOURCE: U. S., Crop Reporting Board; ALL other countries, FAS Attache Reports.

January 1979

TANGERINES, FRESH: PRODUCTION IN SELECTED NORTHERN HEMISPHERE COUNTRIES, 1973/74-1978/79 (Thousand metric tons)

:	: Crop Year						
Country :	1973/74 :	1974/75 :	1975/76 :	1976/77 :	1977/78 :	$\frac{2}{1978/79}$	
:							
Egypt:	89	99	97	85	76	80	
Greece:	29	34	34	34	26	29	
Italy:	334	334	351	358	352	305	
Jamaica:	4	13	6	2	4	4	
Japan:	3,852	3,939	4,219	3,560	4,104	3,647	
Mexico 3/:	122	156	70	141	71	96	
Morocco	190	106	120	200	250	271	
Spain:	600	591	652	685	796	860	
Turkey:	84	112	105	126	135	130	
United States:	559	619	664	577	613	589	
:							
Total:	5,863	6,003	6,318	5,768	6,427	6,011	
:							

¹/ Tangerines include the following varieties: Mandarins, Clementines, Mikans, Satsumas, Wilkings, Fines, Monreals, and Summer oranges (Natsu-Mikan, a variety grown in Japan). 2/ Preliminary. 3/ States of Nuevo Leon, San Luis Potosi, Tamaulipas and Veracruz only.

SOURCE: U.S., Crop Reporting Board; ALL other countries, FAS Attache Reports.

January 1979

LEMONS, FRESH: PRODUCTION IN SELECTED

NORTHERN HEMISPHERE COUNTRIES, 1973/74-1978/79

(Thousand metric tons)

		mousand met	TIC COMS)				
:			Crop Year				
Country :						1/	
<u> </u>	1973/74:	1974/75 :	1975/76 :	1976/77 :	1977/78:	1978/79	
:							
Cyprus:	42	18	20	30	30	24	
Egypt:	2	1	2	1	1	1	
Greece:	154	185	191	190	194	175	
Israel:	30	31	31	37	29	38	
Italy:	690	781	826	792	800	600	
Morocco:	2	7	5	2	3	8	
Spain:	206	161	296	220	313	239	
Turkey:		265	290	278	280	250	
United States	613	1,014	608	896	900	758	
:						- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Total:	1,861	2,463	2,269	2,446	2,550	2,093	
:							

^{1/} Preliminary.

SOURCE: U. S., Crop Reporting Board; ALL other countries, FAS Attache Reports.

January 1979

GRAPEFRUIT, FRESH: PRODUCTION IN SELECTED NORTHERN HEMISPHERE COUNTRIES, 1973/74-1978/79

(Thousand metric tons)

				Crop Year			
Country	•						1/
	:1973/74	:	1974/75 :	1975/76 :	1976/77 :	1977/78:	1978/79
	•						
Belize	: 16		19	15	8	11	4
Cyprus	: 68		58	53	46	66	65
Israel	388		403	449	491	456	470
Jamaica	: 30		28	26	19	17	15
Mexico 2/	: 34		36	32	50	43	40
Morocco	: 17		12	13	16	12	10
Spain	: 6		5	7	7	7	9
Turkey	. 7		12	12	13	22	20
United States	2,442		2,271	2,586	2,751	2,721	2,624
Total	: 3,008		2,844	3,193	3,401	3,355	3,257
	•						

 $[\]underline{1}/$ Preliminary. $\underline{2}/$ States of Nuevo Leon, San Luis Potosi, Tamaulipas, and Veracruz only.

SOURCE: U. S., Crop Reporting Board; ALL other countries, FAS Attache Reports.

January 1979

Commodity Programs, FAS, USDA

CITRUS, FRESH: EXPORTS FROM SPECIFIED COUNTRIES SEASONS 1976/77 & 1977/78

			(1,000	000 metric tons)	tons)					
••		••		••		• •		••		
COUNTRY	Ora	Oranges :	Tangerines	ines :	Lem	Lemons :	Grapefruit	uit :	Total	al
••	1976/77	1977/78 : 1976/77	1976/77	1977/78:	1976/77	77/78 : 1976/77	1976/77	1977/78:	1976/77	1977/78
: '1'										
Cyprus \pm' :	27.1	26.6	6.	.7	7.9	8.4	33.8	35.2	7.69	70.9
Egypt	195.0	130.0	1.0	1.0	1		.5	.5	196.5	131.5
Greece	210.8	197.1	4.8	4.5	75.9	100.1			291.5	301.7
Israel	651.3	621.0	{ 	-	19.3	15.3	256.8	251.3	927.4	887.6
Italy	248.8	139.5	21.5	11.8	234.3	178.7			504.6	330.0
Japan			20.0	22.0			 		20.0	22.0
Morocco	420.9	9.905	133.9	163.1	.1	9.	1.3	1.0	556.2	671.3
Spain	950.1	915.3	512.9	8.709	150.0	228.0	3.6	5.1	1,616.6	1.756.2
Turkey	28.6	10.2	30.1	24.2	77.1	92.1	7.0	7.0	142.8	133.5
United States:	397.8	335.0	15.9	16.0	241.0	206.3	274.4	265.2	929.1	822.5
Total	3,130.4	2,881.3	741.0	851.1	805.6	829.5	577.4	565.3	5,254.4	5,127.2

---Denotes not available, unknown, or not applicable. $\underline{1}/$ Greek sector of Cyprus only, no official data available for the Turkish sector.

SOURCE: FAS Attache Reports.

January 1979

ORANGES, FRESH: EXPORTS FROM UNITED STATES 1972/73-1977/78
(Metric tons)

			ic tons)			
Country of				ing November		· · · · · · · · · · · · · · · · · · ·
Destination :	1972/73	: 1973/74	: 1974/75	: 1975/76	: 1976/77	: 1977/78
EUROPE						
<u>EC</u>						7 1 07
Belgium-Luxembourg.	: 111		1,399	11,223	9,993	7,421
Denmark		868	2,119	1,135	1,061	154
France		8,539	18,711	11,844	9,128	2,418
Germany, Fed. Rep		10,445	19,419	13,144	4,709	2,159
Ireland			67	1.7.700	20.026	
Netherlands	/	20,608	62,482	41,120	30,036	19,974
United Kingdom	3,590	9,783	18,119	22,141	16,000	3,750
Total	37,397	50,243	122,316	100,607	70,927	35;876
					1,17=1	
OTHER EUROPE :						
Finland			7+7+	96	40	
German, Dem. Rep:		4,162	21,466	8,857	. 393	
Norway	: 601	954	1,980	1,345	1,726	1,505
Poland		857	1,363			
Sweden		2,923	4,423	2,761	3,967	1,665
Switzerland				90	10	16
Other						5⊥
Total	1,453	8,899	29,276	13,156	6,136	3,237
Total Europe	38,850	59,142	151,592	113,763	77,063	39,113
LATIN AMERICA						
Belize						93
Honduras					34	
Mexico		46	287	831	579	275
Panama	:i2	26	20	17	12	10
M-+-7	00	50	205	01.0	(05	3.50
Total	83		307	848	625	378
BERMUDA & CARIBBEAN						
Bahamas	676	512	649	540	424	318
Barbados		2				3
Bermuda		123	107	142	138	222
Fr. West Indies			11	53	51	108
Jamaica		1.8	415	53 59		
Netherlands Antilles:		401	347	437	542	797
Other	14			11	40	60
Total	1,422	1,056	1,529	1,242	1,195	1,508
10 0011	19166		- ラノニノ	<u> </u>	<u> </u>	

Continued.....

January 1979

ORANGES, FRESH: EXPORTS FROM UNITED STATES 1972/73-1977/78 (Metric tons)

Country of :			Year beginn	ing November	. 1	
Destination :	1972/73	: 1973/74	: 1974/75	: 1975/76 :	1976/77	1977/78
OTHER COUNTRIES :						
Australia		412	41		16	32
Canada	129,161	143,985	169,451	176,566	169,845	150,009
china Taiwan	16	33	34		35	729
French Pacific Is:		407	356	375	413	333
Hong Kong		68,723	93,710	97,329	99,188	81,081
Indonesia		918	1,573	3,083	2,827	1,901
Iran		10 721	10,593	2), 000	22 147 2) D FOI
Japan Korea, Republic:	15,771 34	19,734 11	22,902 172	24,870 210	22,443 169	43,521 51
Malaysia		200	476	865	2,021	1,310
New Zealand		13,585	9,172	7,091	7,505	5,080
Other Pacific Is:		-3,,,,,,	130	59	46	86
Philippines	104		26	5	4	
Saudi Arabia			4,101			27
Singapore		3,715	11,205	13,802	14,272	9 , 697
Soviet Union	_		1,459			
Trust Terr. Pac. Is.:		25	27	25	69	58
Other	24	19	30		35	59
Total	231,790	251,828	325,458	324,297	318,888	293,974
Grand Total	272,145	312,098	478,886	440,150	397,771	334,973

⁻⁻⁻ Denotes not available, unknown, or not applicable.

SOURCE: U.S. Bureau of Census.

TANGERINES, FRESH: EXPORTS FROM UNITED STATES 1972/73-1977/78

	·	(Metri	c tons)			
Country of			ear beginning			
	: 1972/73	: 1973/74	: 1974/75 :	1975/76 :	1976/77 :	1977/78
EUROPE	,				~~~	a = 0
France				_72	539 89	2 <u>7</u> 8
Germany, Fed. Rep		=- -		513		50
Netherlands			119	1,333	1,038	238
Norway					41	
Sweden			16		499	29
Switzerland				18		49
United Kingdom					19	15
Other				17	20	37
Total	119		135	1,953	2,245	696
ד איידאז אאנייסדכיא						
LATIN AMERICA Mexico	28	23	23	8	10	
Venezuela			دے	-	10	17
Other		1	15	6	<u></u>	1
Omici	•					Τ
Total	32	24	38	14	15	18
BERMUDA & CARIBBEAN	•					
Bahamas	32	131	167	91	80	193
Bermuda		27	35	36	31	41
Netherland Antilles		12	10	42	12	264
Other				14	5	9
	•					
Total	<u>64</u>	170	212	183	128	507
OTHER COUNTRIES	•					_
Canada	9,371	8,844	12,255	12,320	12,939	10,623
French Pacific Is		[′] 56	27	50	58	, 6
Hong Kong	31		101	64	25	34
Japan	: 317	8+	104	109	418	3,850
New Zealand	:		91	162		
Singapore				6	41	35
Other	23			14	31	22
Total	9,834	8,984	12,578	12,725	13,512	14,570
Crond Motol						
Grand Total	: 10,049	9,178	12,963	14,875	15,900	15,791
Delicoes flot availar	orc ammiowi	, or not ap	btrcante.			

SOURCE: U.S. Bureau of Census.

January 1979

LEMONS, FRESH: EXPORTS FROM UNITED STATES 1972/73-1977/78
(Metric tons)

		(Metri	lc tons)			
Country of	:			ing August 1		
Destination	: 1972/73	: 1973/74	: 1974/75	: 1975/76 :	: 1976/77 :	1977/78
EUROPE EC	•					
Belgium-Luxembourg. Denmark France	3,494	306 1,296 25,934	441 1,580 28,525	4,369 1,476 19,853	8,843 1,509 25,688	6,163 549 17,762
Germany, Fed. Rep Ireland Italy	:	7,966 	14,699 35	8,465	3,298 	1,213
Netherlands United Kingdom	: 16,645	13,202 2,586	20,925 2,631	10,419 3,573	10,593 5,692	6,509 2,987
Total	63,098	51,290	68,836	48,155	55,623	35,183
OTHER EUROPE Czechoslovakia Finland German, Dem. Rep. Norway Poland Sweden Switzerland Yugoslavia	8785,0391,8856,3404,755108	104 49 4,596 595 7,579 5,267 2 1,222	176 1,390 890 13,577 4,307	2,594 5,160 492 12,865 4,155 4	5,293 8,153 741 24,486 5,811 1	3,155 17 3,237 794 18,823 4,524 105
Total	19,005	19,414	20,340	25,270	44,485	30,655
Total Europe	82,103	70,704	89,176	73,425	100,108	65,838
LATIN AMERICA Mexico Other	160 3	615 15	658 2	1,061	638 2	668
Total	163	630	660	1,064	640	671
BERMUDA & CARIBBEAN Bahamas Bermuda NetherlandsAntilles Other	: 47	81 78 10 19	84 58 35	87 93 24 	122 72 25	149 77 33 20
Total	138	188	177	204	219	279
	•			(Continued	

Continued.....

January 1979

LEMONS, FRESH: EXPORTS FROM UNITED STATES 1972/73-1977/78 (Metric tons)

Country of :		(Metric		ing August		
Destination :	1972/73				: 1976/77 :	1977/78
OTHER COUNTRIES :	1/(4/1)	• 1/()/("•	1/(T/()	1/1/10	1/0///	-////
Australia				3		168
Canada	18,083	16 ,8 48	18,261	15,923	16,365	16,296
China Taiwan		 2 717	9	2 06/1	3,779	146
Hong KongIndonesia		2,717	2,325 119 86	2,964 43	3,779	3,966 23
IranIsrael			174			
Japan Korea, Republic	: 84,116	92,605 	85,055 13	85,660 50	100,561	108,772 5
Lebanon	: 156	260 286	323	1,686	43,6	314
Philippines Saudi Arabia		363		3	4	56 172
Singapore		82	42	85	184	248
Soviet Union	- / '	4,257	9,686	8,670	17,789	9,367
Thailand Other		8	2	2	869 19	16
Total	110,135	117,430	116,095	115,098	140,030	139,549
Grand Total	192,539	188,952	206,108	189,791	240,997	206,337

⁻⁻⁻ Denotes not available, unknown, or not applicable.

SOURCE: U.S. Bureau of Census.

GRAPEFRUIT, FRESH: EXPORTS FROM UNITED STATES, 1972/73-1977/78 (Metric tons)

			c tons)			
Country of :		Year	beginning			
	1972/73	1973/7+:	1974/75:	1975/76:	1976/77 :	: 1977/78
EUROPE :						
EC						
Belgium-Luxembourg.:	185	185	869	2,039	289	1,207
Denmark	153	77	230	106	3	21
France	8,138	9,173	17,757	31,630	27,147	36,343
Germany, Fed. Rep:		1,353	2,637	6,422	2,452	5,267
Ireland	`	-,5/5	31	31	-, -, -	7,1
Italy:	1,3 ¹⁺¹ +	254	60	885	1,041	389
Netherlands	11,158	11,194	12,570	28,175	30,195	34,541
United Kingdom:		1,606	3,617	5,281	2,199	2,609
				7,202		
Total	25,326	23,842	37,771	74,569	63,326	80,377
10 041111111111111111111111111111111111		25,012	J/3.//±	711207	0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00,577
OTHER EUROPE						
German Dem. Rep	871	745			1,829	
Norway	43	18	36	22	22	26
Poland		471	24	22	1,303	20
Sweden	220	487	5 4 7	978	818	804
Switzerland	220	•	508	704	666	402
Other),	190	500	17	27	1
Outer					2/	
Total	1,138	1,911	1,115	1,721	4,665	1,233
10041	1,130	1,711	1,11/	19/21	4,00)	1,433
Total Europe:	26,464	25,753	38,886	76,290	67,991	81,610
TO CALL EUR Ope	20,707	<u> </u>	30,000	70,290	<u> </u>	01,010
LATIN AMERICA						
Mexico	95	41	105	174	220	148
Panama	7)	——————————————————————————————————————	10)	⊥/⊤	220	1 1 41
Other	32			15		- T
Outer						
Фо+о1	127	41	105	189	220	589
Total	12/	+1	10)	109	220	
BERMUDA & CARIBBEAN						
	181	7 54	142	249	60	101
Bahamas		156				
Bermuda NetherlandsAntilles:		32 17	17	20 10	19	23 25
	9 12	1/	55	10	O	۷)
Other			·			
Total .	236	205	214	270	87	149
Total	230	205	214	<u> </u>	0/	エサブ

Continued.....

January 1979

GRAPEFRUIT, FRESH: EXPORTS FROM UNITED STATES, 1972/73-1977/78

		(Meri.T	c tons)			
Country of	Year beginning September 1					
Destination	: 1972/73	: 1973/74	: 1974/75	: 1975/76	: 1976/77	: 1977/78
OTHER COUNTRIES	•					
Australia	: 135	184	255	79	54	236
Canada		52,612	53,828	63,249	56,723	60,378 429
Hong Kong		265	279	410	420	429
Japan		154,761	133,2)+2	143,789	147,990	121,102
New Zealand		924	700	432	750	555
Philippines	:	148			5	5
Singapore		110	120	147	124	93
Other		25	59	11	13	16
	:					
Total	:165,318	209,029	188,483	208,117	206,079	182,814
Grand Total	192,145	235,028	227,688	284,875	274,377	265,162
Denotes not available, unknown or not applicable.						

SOURCE: U.S. Bureau of Census.

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